



CATALOG OF

**ELECTRO-  
SURGICAL · MEDICAL  
EQUIPMENT**



NUMBER 36 1939 - 40

**ACCESSORIES  
and SUPPLIES**

**H. G. FISCHER & CO.**

*Manufacturers of*

X-RAY AND ELECTRO-SURGICAL-MEDICAL EQUIPMENT  
2323 - 2345 Wabansia Avenue · Chicago Illinois



FISCHER ELECTRO-SURGICAL-MEDICAL  
EQUIPMENT, X-RAY APPARATUS  
ACCESSORIES and SUPPLIES

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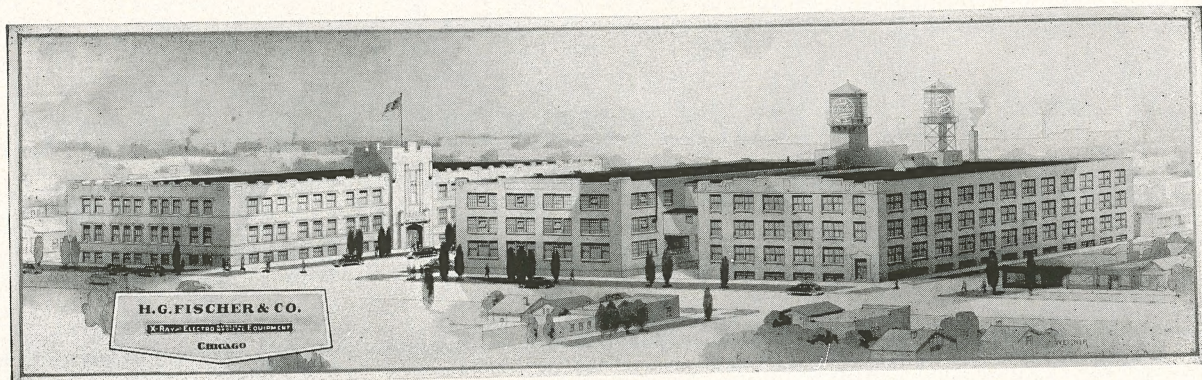
1939-1940 · Catalog No. 36



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H. G. FISCHER & CO.  
2323-2345 Wabansia Avenue · Chicago, Illinois





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## The Complete FISCHER Line

**T**HE complete FISCHER Line includes X-ray Apparatus (Medical and Dental), Short Wave High Frequency Units, Combination Cabinets, Galvanic Apparatus and Wave Generators, Diathermy Machines, Tissue-cutting Units, Ultra-violet and Infra-red Generators, Accessories and Supplies. The FISCHER manufacturing policy requires first that every piece of FISCHER equipment shall equal or exceed in performance every competing unit designed for the same purpose, regardless of price. Second, the unit itself must be priced at the lowest point consistent with quality manufacture.

Since 1910, H. G. FISCHER & CO. have been one of the largest manufacturers of x-ray and electro-surgical-medical apparatus. Their equipment is known today and used the world around. It is a fact worth noting that this company was founded so long ago with small capital, and has been built up to its present proportions without the introduction of outside capital, never undertaking any mergers or reorganizations. We believe this is the only company in the industry where the men who founded it have always been and still are the active heads—where the original ideals of building the most efficient, durable and result-producing equipment possible and selling it at a fair price have been continued through the company's history with the same continuity of ownership, management and personnel.

The fact that more than 65,000 physicians, dentists, hospitals, clinics and universities in the United States and throughout the world use FISCHER manufactured equipment and that virtually all of these over this period have purchased additional FISCHER equipment is evidence that this apparatus can be thoroughly relied upon.

Further, the fact that H. G. FISCHER & CO. distributes its products through its own factory-trained dealer representatives not only enables the purchaser to get a great deal more per dollar expended by way of efficient and durable equipment, but at the same time assures to him an extraordinary high quality of service from expert men. Our comparatively small overhead expense and direct factory representation enable us to give the purchaser such value per dollar expended as cannot be excelled by any competitor in the field.

The FISCHER plant is centrally located. Physicians or dentists visiting Chicago are invited to spend as much time as they desire inspecting our newest apparatus or consulting regarding the technics of application. Factory visitors are not solicited for orders. When wanting information, ask your local FISCHER dealer representative or write to our Home Office in Chicago.

## FOREWORD

In presenting this 36th Edition of the H. G. FISCHER & CO. Catalog of Electro-Surgical-Medical-Equipment, X-Ray Apparatus, Accessories and Supplies, it is pertinent to note:

- ... 1 That every effort has been made to include all apparatus and accessories needed by the physician for the application of electro-therapeutic technics.
- ... 2 That often competing items are shown, including apparatus, accessories and supplies, permitting selections to be made.
- ... 3 That prices have been inserted for the convenience of customers, although from time to time changes in prices are necessary.
- ... 4 That a handy reference index will be found at the back of this catalog.

Every piece of apparatus, also all accessories and supplies listed are recommended as high quality and thoroughly dependable. It is to be understood, further, that illustrations and descriptions are not binding as to detail, in view of the fact that improvements are constantly being sought and, when found, adopted by the manufacturers.

Orders will always be filled with "the latest model" equipment, accessories, or supplies—new models naturally being superior to the models replaced.

Requests for items not catalogued are invited.

## NOTICE

Prices quoted are subject to change without notice. H. G. FISCHER & CO. makes every effort to give prompt and efficient service. Read page 43 for Instructions on How to Order.



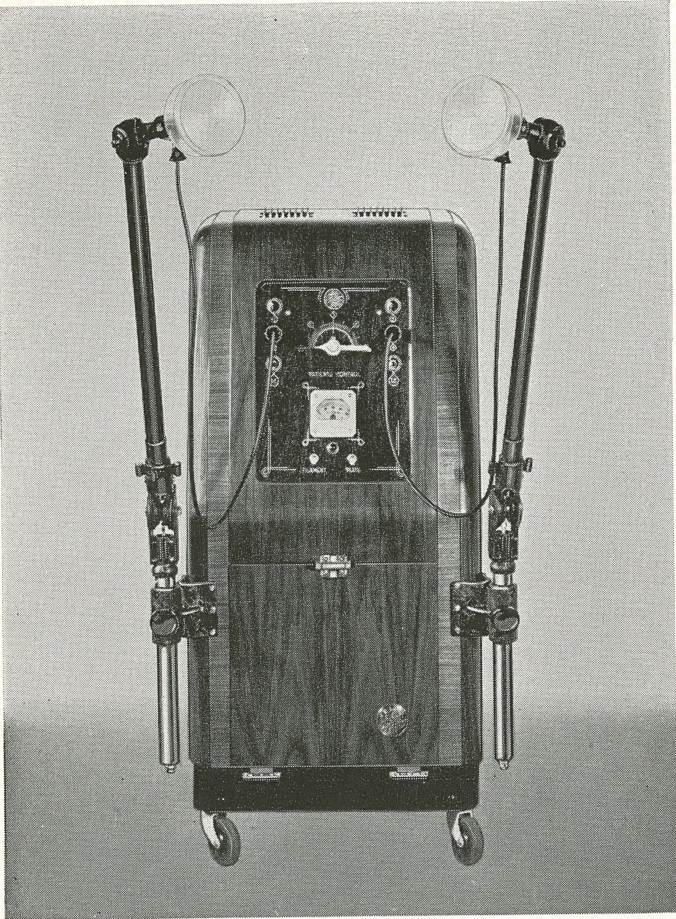
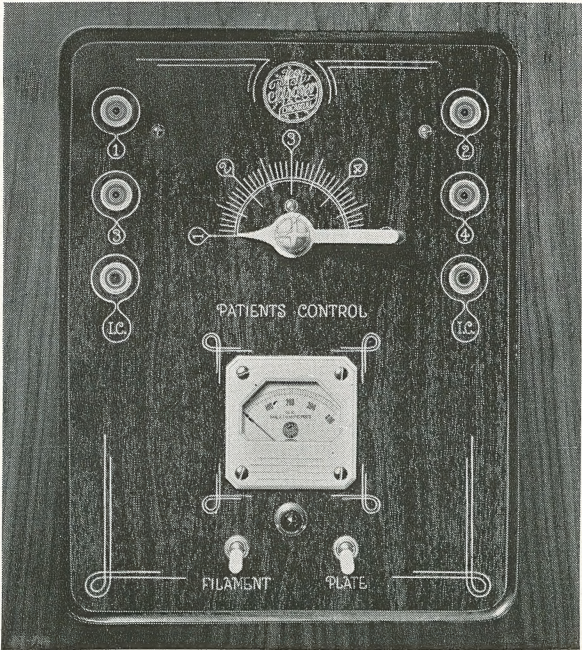
# FISCHER Model "M" Short Wave Apparatus



THIS unit is recommended to physicians, hospitals, clinics, medical schools, wanting finest performance in all short wave facilities. Among important features are the following: (1) The inductance disc with universally flexible arm is standard equipment. Performance of this disc is so effective that it gives virtually every service needed in short wave therapy. (2) Unit permits applications to be made with either inductance cable, cuff, pad, or orificial electrodes, when indications require such applications. (3) Users who wish it may have this apparatus equipped with air-spaced electrodes. These are generally used in pairs, but fit the FISCHER universally flexible arm, thus requiring only one additional flexible arm. This Model "M" provides all short wave applications, including excellent electro-surgical currents. A complete list of features of structure-operation is given on the following page.

## Control Panel

VIEW RIGHT: This enlarged panel of FISCHER Model "M" Short Wave Apparatus shows complete markings—the six patient's outlets, the single control, the milliammeter, and filament and plate switches. The simplicity of control and ease of operation are features deserving special emphasis. The control itself has the advantage of providing both coarse or rapid and fine adjustment, the latter being vernier adjustment. Currents, for any purpose, are under very fine control—and power can be applied to the patient at any level up to the full output of the apparatus. Fine control applies also to the electrosurgical currents.



## Short Wave Therapy

As a therapeutic agent, short wave diathermy has today won such distinction as to deserve a place in every physician's office. Authorities, who have had extensive experience with short wave applications and results, say that short wave diathermy is perhaps the most important contribution to medical practice since Roentgen's epochal discovery of the x-ray. As a modality for creating heat within body tissues, short wave diathermy is unequalled in convenience and effectiveness. Deep heating or localized heating are equally possible. Application means simply to bring the part to be heated within the electrical field. It is fair to say that with short wave diathermy you can put as much heat as you want, anywhere you want it.

## Features of Structure-Operation

1. **POWER.** Photometric tests show the power of FISCHER Model "M" to be unusually great—at least 25% over former apparatus.
2. **FLEXIBILITY OF APPLICATIONS.** All types of short wave applications are possible—inductance disc, inductance cable, condenser cuff, pad or orificial electrodes and air-spaced electrodes.
3. **DEPENDABILITY OF PERFORMANCE.** FISCHER Model "M" Short Wave Apparatus is designed and constructed to give long years of efficient trouble-free service.
4. **SINGLE CONTROL.** Simplicity of control and fineness of control are features. Power can be applied to patients at any level up to maximum.
5. **TUBES.** FISCHER Model "M" is a four tube unit—2 power, 2 rectifier. They are especially efficient and durable. Tantalum anodes instead of carbon.
6. **PATIENTS' OUTLETS.** There are six patients' outlets—four for condenser electrodes and two for the inductance cable or inductance disc.
7. **HIGHEST QUALITY CONSTRUCTION.** The very finest materials are used. The cabinet is walnut, built like finest furniture. The panel is bakelite.
8. **VENTILATION.** Provided by the double ventilator at top of cabinet. The air passes upward directly over the tubes and ventilation is ample to prevent overheating of tubes, regardless of duration of application.
9. **TUBE CIRCUIT BALANCED.** A special method of wiring in FISCHER Model "M" forces each tube to carry its proper load. The result is protection and longer life for the tubes.
10. **ELECTROSURGICAL CURRENTS.** Currents for electrocoagulation and for electrosurgical tissue cutting merit special mention. They are much superior to such currents in previous models. Tissue cutting may be done under water.
11. **A CHOICE OF FINISH IS OFFERED.** Three-tone walnut is standard. A special ivory finish may be had at a small additional cost. Metal parts are chromium.
12. **INDUCTANCE DISC.** This disc is a special feature of FISCHER Model "M". The advantage is the time-saving and convenience in making short wave applications.
13. **AIR-SPACED ELECTRODES** Air-spaced electrodes are generally used in pairs. A single air-spaced electrode may be used with an indifferent (pad) electrode.
14. **MOBILITY.** The large casters swivel easily and composition tires prevent damage to fine floors.
15. **GUARANTEED PERFORMANCE.** Every FISCHER Model "M" Short Wave Apparatus bears the well-known FISCHER guarantee of satisfactory performance.

No.		Code	Price
4425	FISCHER Model "M" Short Wave Apparatus, equipped with flexible arm and inductance disc and including two condenser pad electrodes (5"x8"), F.O.B. Chicago	TEAST	\$425.00
4434	Extra Supporting Arm, should two arms be desired for air-spaced electrodes	TEBAC	35.50
4444	Single Air-Spaced Electrode—consisting of electrode body, 4" disc, 2" disc and connecting cord	TECAA	10.00

Ask for descriptive pamphlet Form 1829A



# FISCHER Model "S" Short Wave Apparatus

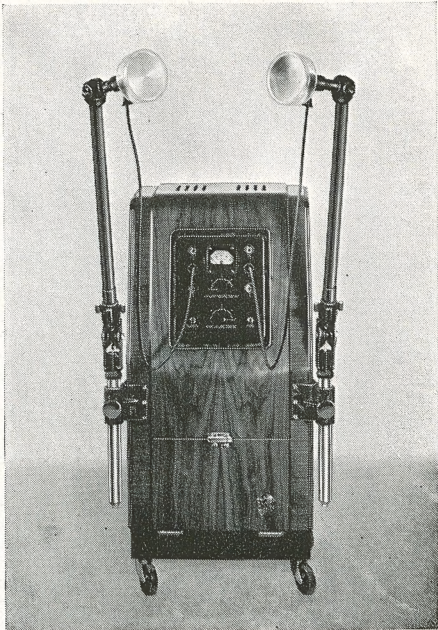
With Portable Section



THIS unit is distinguished first by being both a cabinet and a portable model. The entire short wave mechanism is housed in a portable section that can easily be lifted out of the cabinet for use in home or at bedside. In the second place, this is an all-service model, providing every short wave application. The inductance disc is regular equipment. When desired this model can be equipped with air-spaced electrodes as shown. Applications can also be made with inductance cable, cuff, pad or insulated orificial electrodes.

A third feature of FISCHER Model "S" permits users to select whichever wave length they prefer—either 6 meters or 12 meters. The desired wave length is to be specified in orders.

FISCHER Model "S" is a 4 tube apparatus. The power tubes have anodes of tantalum. A complete list of features of structure-operation is given below.



## Features of Structure-Operation

- 1 Power is more than ample for every type of application. Heating is accomplished rapidly.
- 2 There are six patient's outlets—four for condenser electrodes and two for the inductance disc or cable.
- 3 Control is very fine, current can be applied to patient at any level up to maximum.
- 4 The tube circuit is balanced, assuring tube protection and economy.
- 5 Construction is highest quality throughout. Only the best materials are used.
- 6 The electrosurgical currents are especially effective, giving superb results.
- 7 Satisfactory performance is guaranteed.
- 8 Finish is optional—two-tone walnut or plain ivory. Metal parts, chromium.

No.		Code	Price
4420	FISCHER Model "S"—12 meters—complete with flexible arm and inductance disc, also 2 pad electrodes (5½"x8½")	TIALM	\$365.00
4422	FISCHER Model "SP"—12 meters—portable section only with inductance cable (including separator blocks) and 2 pad electrodes (5½"x8½")	TIANO	290.00
4520	FISCHER Model "S"—6 meters—complete with flexible arm and inductance disc, also 2 pad electrodes (5½"x8½")	TIAOR	375.00
4522	FISCHER Model "SP"—6 meters—portable section only with inductance cable (including separator blocks) and 2 pad electrodes (5½"x8½")	TIARS	300.00

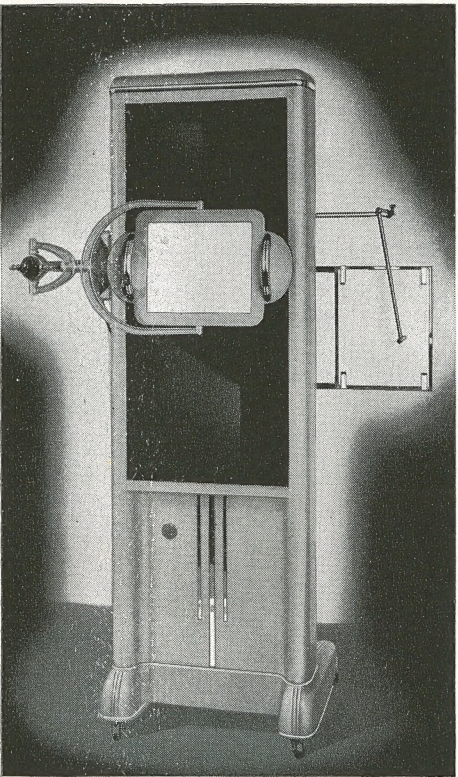
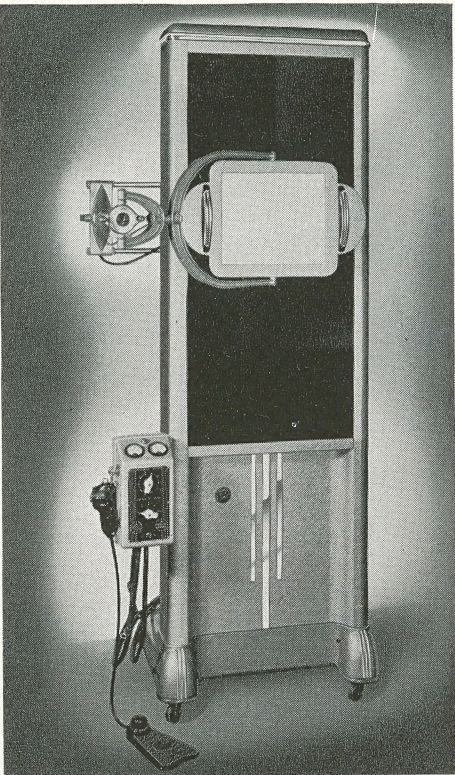
Ask for descriptive pamphlet Form 1863

# FISCHER Model "GF-15" Shockproof Fluoroscope with Radiographic Facilities

THIS unit has been designed with two distinct purposes in mind: first, it is a very high-quality fluoroscope, as shown in the adjoining illustration; second, used with a table, it provides a wide range of radiographic facilities. Further, the tubehead and control box may easily be removed and with a simple table-stand make a fine portable radiographic unit. The special control box permits variation of both milliamperage and kilovoltage.

FISCHER Model "GF-15" is not only a very high quality apparatus in materials and construction, massive and sturdy, but it gives superb performance. Power is up to 15 M.A. and up to 85 P.K.V. In the illustration below is shown, attached to the apparatus, the FISCHER Orthodiagraphic Attachment for heart tracing. The following list of features of structure-operation emphasize the chief merits of this apparatus.

\* \* \*



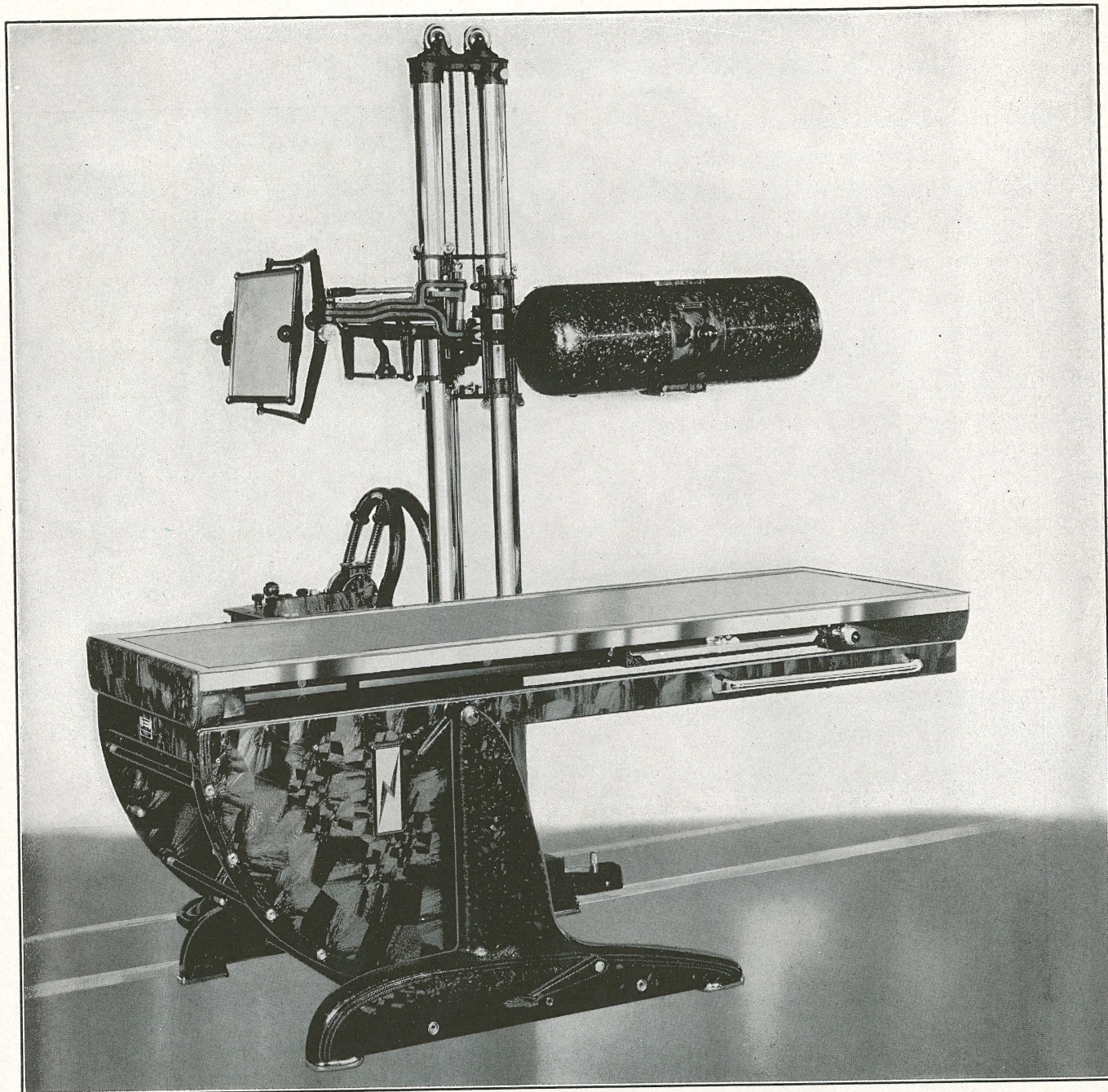
## Features of STRUCTURE-OPERATION

1. FISCHER Model "GF-15" Fluoroscope is shockproof throughout. Construction is of the oil-immersed type.
2. Flexibility of this unit is a marked feature. Counterbalancing is exact and screen moves at the touch of a finger.
3. The latest-type fine-focus hot cathode tube is used. It is designed to give exceptional definition in both radiography and fluoroscopy.
4. The fluoroscopic screen is the Patterson Type "B", measuring 10"x12".
5. The shutters are adjustable both horizontally and vertically permitting any limitation of screen area.
6. The high voltage transformer is designed to provide stable operation at high efficiency under all load conditions.
7. The panel is pure bakelite, free from grain.
8. All materials and all construction work are guaranteed highest quality.
9. Apparatus furnished to operate on either 110 volts or 220 volts.
10. Finishes are black Kristokrak or hammered gray. Special finishes at slight extra cost.

No.		Code	Price
4525	FISCHER Model "GF-15" Fluoroscope, including No. 4480F control, Patterson "B" screen, foot switch	TICHJ	\$835.00
4358	Casters and Locks for FISCHER Model "GF-15" Fluoroscope	TATAT	7.50
4360	FISCHER Orthodiagraphic Attachment	TEBOP	75.00
408D	Hand Timer, calibrated in one-fourth seconds, up to 12 seconds	TIBSR	42.00

Ask for descriptive pamphlet Form 1788A





## FISCHER MODEL "60-88"

### Diagnostic Shockproof X-Ray Apparatus

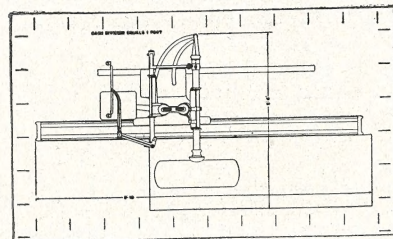


Diagram of space needed for Model "60-88." Unit with table measures, 9½ feet long, 5½ feet wide, 7 feet high. Divisions between small lines perpendicular to border equal 1 foot.

THIS apparatus represents unquestionably one of the greatest advances in efficient, compact x-ray manufacture ever made available to physicians. It is absolutely shockproof to both operator and patient. Overall dimensions are approximately 9½ ft. long, 5½ ft. wide, 7 ft. high. Any of the positions required, in either radiography or fluoroscopy, can be arranged as desired. Change from one position to another requires but a few seconds. With the exception of deep therapy, which lies outside the field of radiography and fluoroscopy, and requires specially designed apparatus, this unit will give every x-ray service required by the physician. Superficial therapy is obviously possible. Using modern films and high-speed screens, this FISCHER Model "60-88" will give a diagnostic service virtually equal to that of any other unit at any price. Designed for physicians' offices, hospitals, sanitariums and clinics. For general x-ray purposes, there is no competing apparatus on the market today that offers more in simplicity, flexibility, all-diagnostic performance and economy of investment.

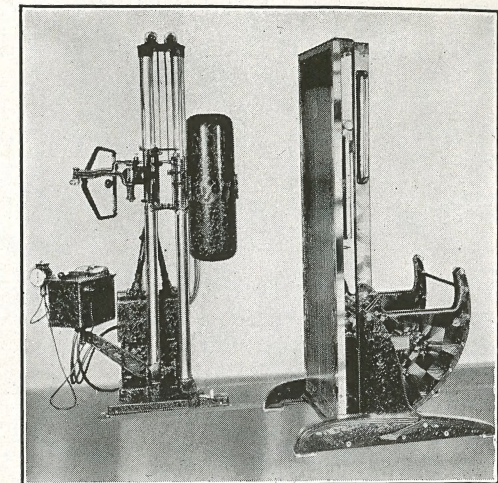
The large illustration shows position for horizontal radiography. Other positions are shown in the small illustrations. For those who desire it, the FISCHER Roentgenographic Table, shown in lower illustration, will be installed in place of the FISCHER Tilt-Table. The uprights are of seamless steel, chromium plated. The track is plated steel. The insulation is sufficient to withstand voltages far beyond anything that can ever develop in actual use. The apparatus as a whole is guaranteed to be exactly as represented and to give the service claimed. It has been built up to FISCHER standards—in reality sets an entirely new standard of x-ray construction and operating efficiency. The simplicity of this unit, using a single tube, fluoroscopic screen, and Bucky diaphragm (heretofore requiring 2 or 3 separate units), and adjusting readily to any requirement, has reduced manufacturing costs to a point where the selling price is exceptional. Physicians who are using this apparatus heartily endorse it as the most outstanding x-ray apparatus available today.

### Outstanding Features of STRUCTURE—OPERATION

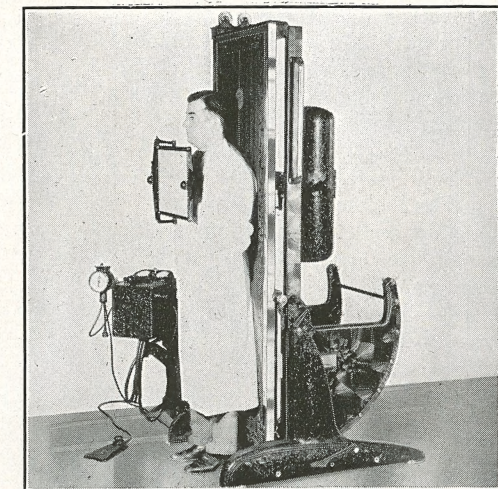
- 1 This unit is absolutely shock-proof, when properly grounded—safe for both patient and operator.
- 2 Any required position may be arranged instantly—no tools needed.
- 3 Small installation space is required.
- 4 Only the very finest materials are used—the finish is attractive—black Kristokrak is standard. Smooth ivory and special finishes at slight extra cost.
- 5 The control unit is equipped with both volt and milliamperage meters.
- 6 The FISCHER Synchrotimer and a foot switch go with the unit.
- 7 By means of convenient locking devices, the apparatus can be locked instantly in any desired position.
- 8 A circuit breaker is provided as an additional safety feature.
- 9 This unit will deliver 60 milliamperes at 88 K.V.P. on a 220 volt line—30 milliamperes at 88 K.V.P. on a 110 volt line.
- 10 The table is full length instead of the usual 72". When desired the FISCHER Roentgenographic Table will be furnished.
- 11 The FISCHER line-focus hot cathode x-ray tube is enclosed in lead glass shield and metal container.
- 12 The fluoroscopic screen measures 12" x 16"—is the Patterson Type "B."
- 13 The FISCHER-Bucky diaphragm may be used in any position from horizontal to vertical—or not used as desired.
- 14 This unit provides every service that can possibly be required of an x-ray apparatus, outside of deep therapy, in offices, hospitals, sanitariums and clinics.

No.	::	Code	Price
T2925	FISCHER Model "60-88" Shockproof, Diagnostic X-ray, Apparatus, including FISCHER Tilt Table, rails, X-ray tube, circuit breaker, meters, Bucky diaphragm, automatic synchrotimer and foot switch	TAHII	\$2018.60
2925	FISCHER Model "60-88" Shockproof Diagnostic X-ray Apparatus, same as No. T2925 except arranged with FISCHER Roentgenographic Table	UNSIX	1918.60

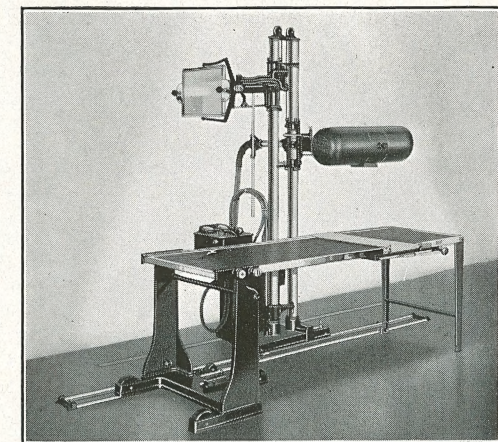
Prices on other arrangements on request.  
Ask for descriptive pamphlet Form 1651.



Position for vertical radiography. Tube stand at opposite end of track. Full radiographic distance possible. No tools needed for changes.



Position for vertical fluoroscopy. Table perpendicular. Screen and tube again lock in unison and move as required.



**Roentgenographic Table**  
FISCHER Model "60-88" shown with FISCHER Roentgenographic and fluoroscopic table. Table adjustable to upright position. Affords both horizontal and vertical radiography and fluoroscopy.

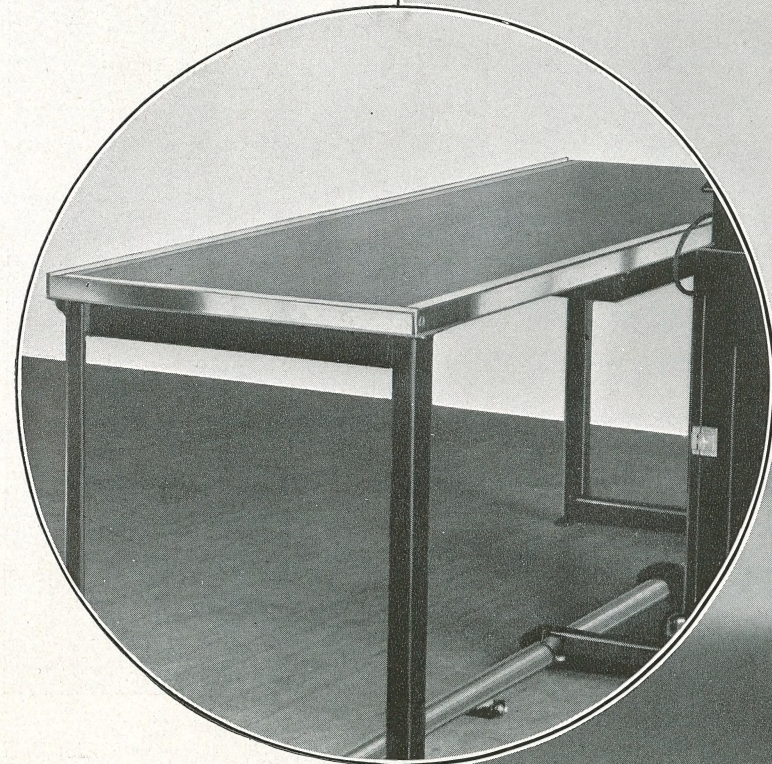


# FISCHER MODEL "DSP-20"

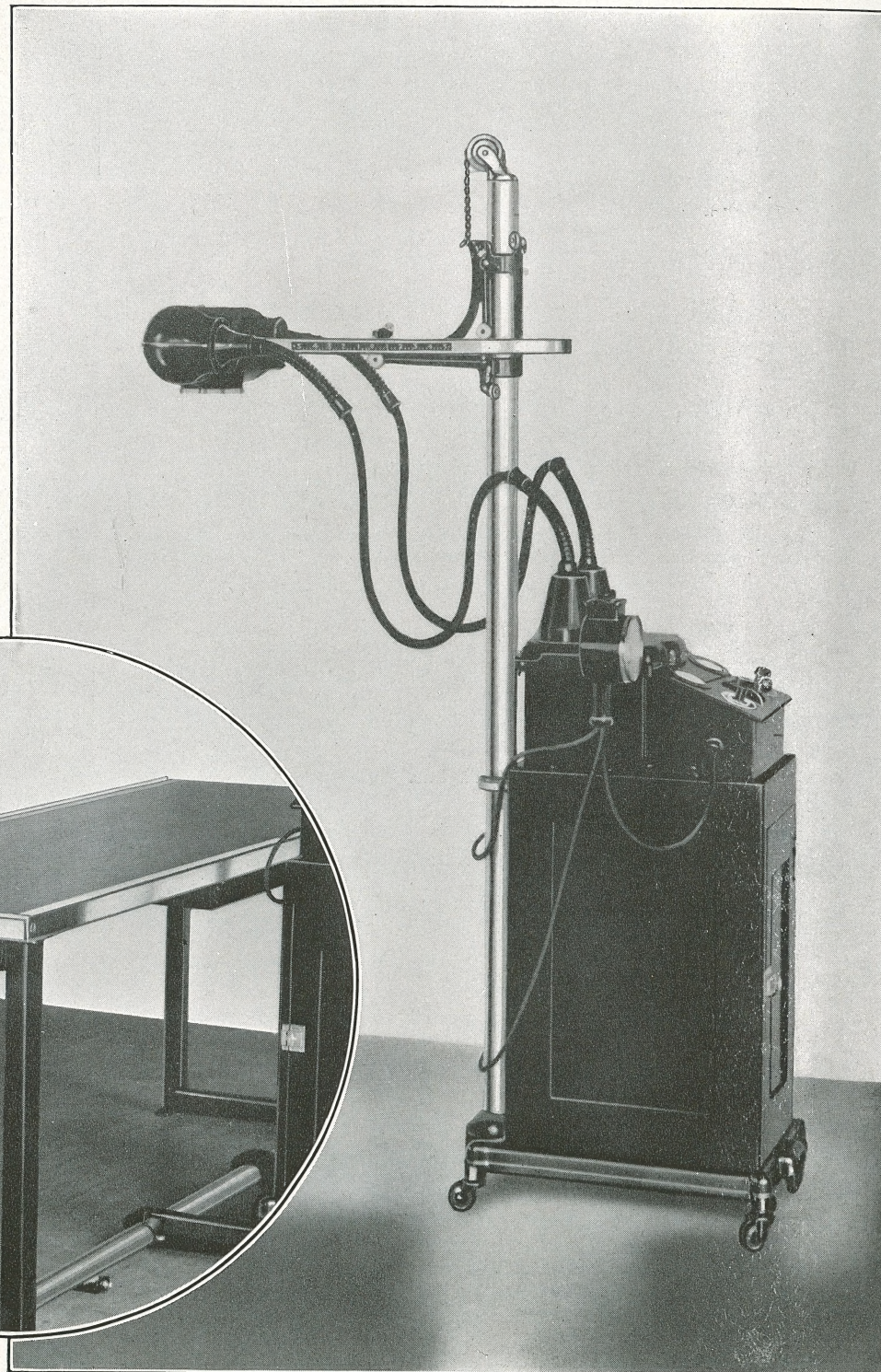
## Diagnostic; Shockproof: X-Ray Apparatus

A low cost mobile and transportable unit designed to serve as original installation or as supplementary mobile unit to large, fixed installation.

THE diagnostic value of an x-ray in medical practice needs no comment. It is universally recognized. Both radiography and fluoroscopy have value. Heretofore the chief obstacle preventing many physicians from installing x-ray equipment has been lack of office space or possibly cost of the apparatus. This new FISCHER Model "DSP-20" overcomes both difficulties. The unit is amply powerful, compact and efficient and the necessary investment within the means of any physician. Model "DSP-20" is surprisingly powerful and shockproof — both portable and transportable — it will serve virtually every radiographic and fluoroscopic need — is compact enough for even the smallest office and offered at a remarkably low



Unit available with or without table — any mounting preferred.



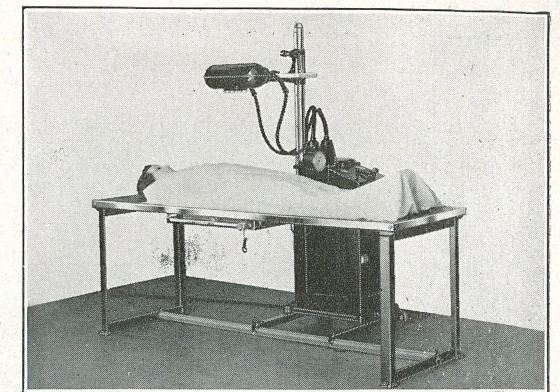
price. In pathology of heart, lungs, stomach, colon, sinuses, treatment of superficial skin lesions, and so on, this unit will give superb results. A chest negative showing finest detail can be made in 1/10 to 1/5 second. A knee or shoulder in 1/2 second. Stomach or colon negatives require only 1/2 to 3/4 second. These results speak for themselves. Tube-head moves to any required position easily—locks securely. Unit may be used with or without table and Bucky. From every point of comparison this Model "DSP-20" is outstanding in its field—a marvel in power, flexibility and durability.

### Features of "DSP-20" Construction and Operation

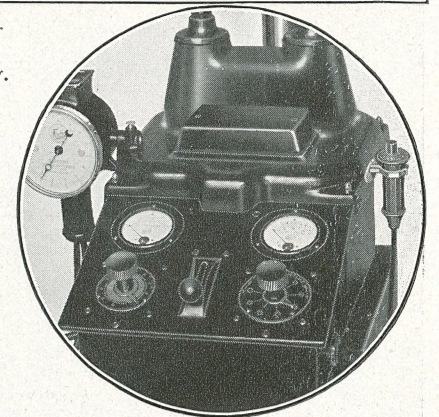
- 1 This unit is absolutely shockproof, when properly grounded—safe for both operator and patient.
- 2 It is mobile and transportable as desired—note illustrations showing various mountings. Can be knocked down and reassembled without tools.
- 3 It offers both radiography and fluoroscopy—changes from one position (or use) to another instantly made.
- 4 In power, this unit is a "20-67"—it delivers up to 20 M.A. and up to 67 K.V.P. This means four times greater speed on exposures over competing apparatus.
- 5 The control is very fine and applies to both milliamperage and kilovoltage. The meters are accurately calibrated.
- 6 Small installation space is needed—when knocked down for transport, unit without table packs readily into automobile seat.
- 7 Operation is the simplest of all units. Line current, 110 volts, 60 cycle.
- 8 Results are excellent. With modern films and high speed intensifying screens, this unit, for all general x-ray purposes, will equal practically any x-ray apparatus on the market.
- 9 Materials and workmanship are highest quality. This is a low-priced, but not in any sense a cheap, unit. Accurately counterbalanced.
- 10 The latest fine-focus hot cathode tube is used. Tubehead takes any position or angle desired.
- 11 Equipped with FISCHER Synchrotimer and remote control switch.
- 12 Cabinet is lead-lined for storage and protection of films.
- 13 Finish is black Kristokrak, metal parts chromium. Can be had also in ivory.

No.		Code	Price
3644AB	FISCHER Model "DSP-20" mounted on lead-lined cabinet with iron base, long upright, casters, X-ray Tube and Electro-Synchrotimer	HERBA	\$700.00
3647AB	FISCHER Model "DSP-20" mounted on lead-lined cabinet with iron base, long upright, carriages to ride on support under 3532 Table, X-ray Tubes and Electro-Synchrotimer	HERNI	715.00
T3647AB	Model "DSP-20" like 3647AB, including rails and carriage for use with Tilt-Table	TAHUU	715.00
3649AB	FISCHER Model "DSP-20" with cabinet, iron base, long upright, carriages, X-ray Tube, Electro-Synchrotimer, all as covered under Cat. No. 3647AB, with FISCHER Table and Bucky Diaphragm	HECOM	1045.00
T3649AB	Model "DSP-20" like T3647AB but with Tilt-Table and Bucky	TAHZZ	1335.00

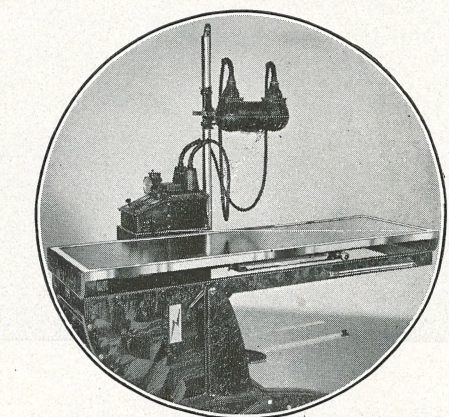
Ask for descriptive pamphlet Form 1506B.



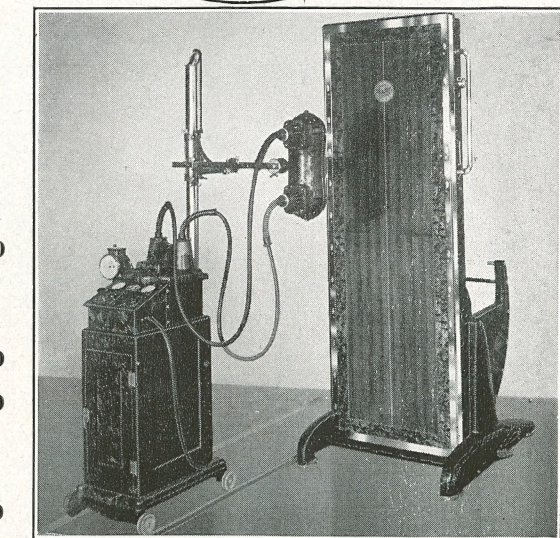
Position for horizontal radiography.



View of control box—synchrotimer, meters, and meter controls.



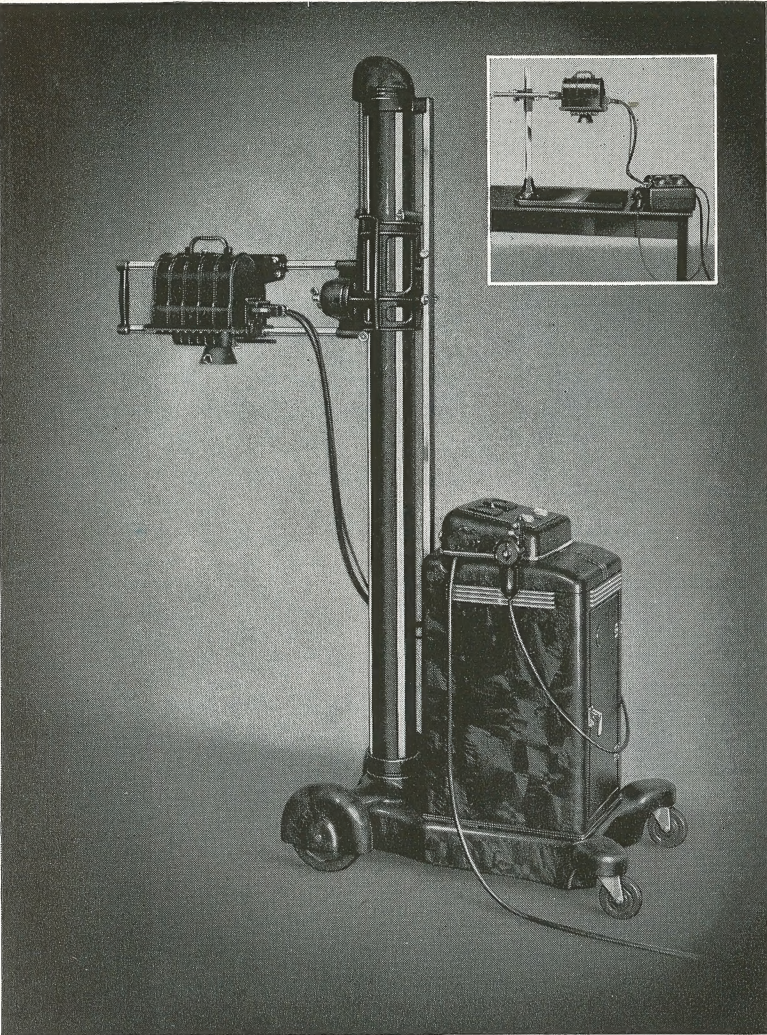
Views of FISCHER Model "DSP-20" used with FISCHER Tilt-Table.



FISCHER Model "DSP-20" may be installed, when desired, with the FISCHER Tilt-Table.



# FISCHER Model "GM" Shockproof X-Ray Apparatus



Available as Mobile Unit or Mounted on Rails for Use with Table

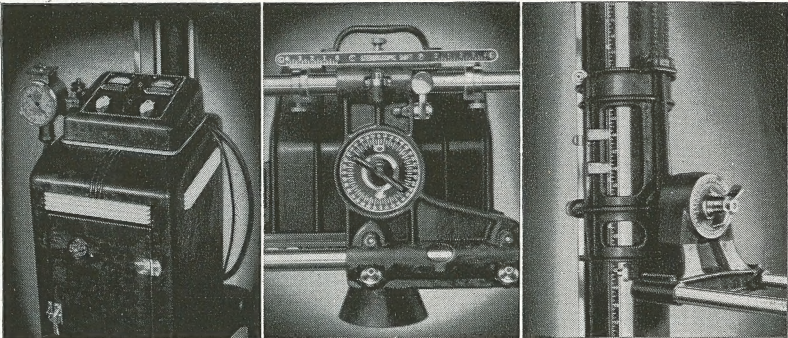
THIS remarkably flexible unit is recommended to physicians, hospitals, clinics, either as an original installation or as a mobile unit supplementary to a large fixed installation. Designed primarily for radiography, fluoroscopy is also possible with hand or operating fluoroscope. A noteworthy feature is the fine portable radiographic unit made by removing tubehead and control box and using a tablestand (note inset). Power available is up to 15 M.A. and up to 85 P.K.V. Performance is excellent. At 10 M.A. and 45 P.K.V., with high speed screens, a wrist or elbow requires only 1 sec. At 15 M.A. and 65 P.K.V., a P.A. chest requires only 1/2 sec. Fluoroscopic results are equally satisfactory.

The small illustrations below show various features of construction—the control stand, the stereoscopic shift, the vertical scale. Every electrical and mechanical feature of proven value has been built into this apparatus. Following are listed the more important features of construction and operation.

This apparatus is available in 30 M.A. capacity — FISCHER Model "GM-30." Information on request.

## Special FEATURES

1. FISCHER Model "GM" is shockproof throughout. Construction is of the oil-immersed type.
2. The design permits complete flexibility of tubehead—tubehead can be lowered under table.
3. Control is very fine. Both milliamperage and kilovoltage are variable.
4. The latest-type, fine-focus tube is used—designed to give exceptional definition in both radiography and fluoroscopy.
5. The high voltage transformer provides stable operation at high efficiency under all load conditions.



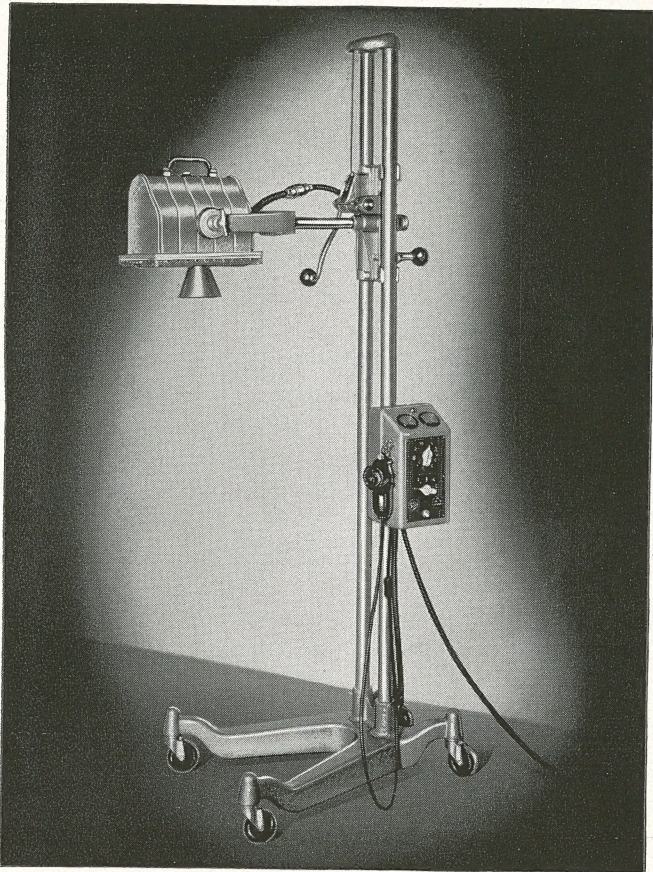
6. There is a double-compartment lead-lined cabinet for films.
7. Finishes are black Kristokrak or hammered gray. Special finishes at slight extra cost.

No.		Code	Price
4470	FISCHER Model "GM" Mobile Shockproof X-Ray Apparatus, on casters with hand timer.....	TEDAB	\$895.00
4471	FISCHER Model "GM" Mobile Shockproof X-Ray Apparatus, with hand timer and arranged to mount on set of 8' grooved rails.....	TEDBC	910.00

If FISCHER Synchrotimer is preferred instead of hand timer, add \$15.50.

Ask for descriptive pamphlet, Form 1836.

# FISCHER Mobile-Portable Shockproof X-Ray Apparatus



THE two x-ray units shown on this page are characterized by simplicity of construction and therefore exceptionally low cost. Within their power range, however, they give superb performance. Either unit may be used with or without table. Obviously also either unit provides fluoroscopy as well as radiography—using a hand or operating fluoroscope. Either of these units is recommended for original installation or as supplementary to a large fixed apparatus. Mobility and portability are features.

\* \* \*

## FISCHER Model "GA-15"

VIEW LEFT: This model delivers up to 15 M.A. and up to 85 P.K.V. It is equipped with a remote control box, permitting variation of both milliamperage and kilovoltage. There is a finest-quality hand timer, measuring time in one-fourth seconds, maximum 12 seconds. A very handy mechanism makes raising or lowering of tubehead simplicity itself. Positions lock fast.

## FISCHER Model "HA-10"

VIEW RIGHT: This model differs from the model shown above in two respects—power is less (10 M.A. at 67 P.K.V.) and there is no remote control box. Both milliamperage and kilovoltage are fixed. The hand timer (not shown) is the same as used with Model "GA-15" above, also the mechanism for raising and lowering tube-head.

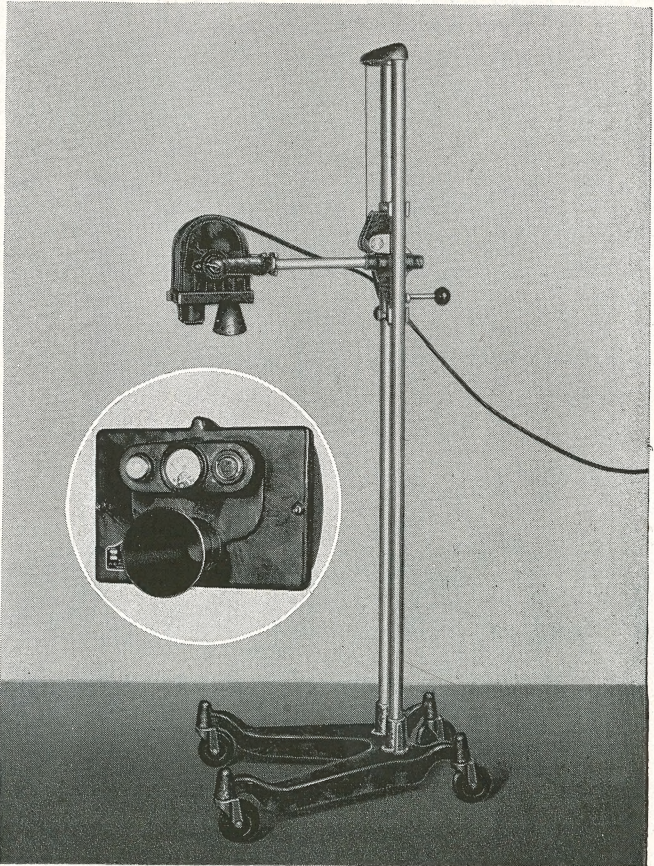
\* \* \*

## FEATURES

Features worthy of special mention, applying to both models, are: (1) shockproof throughout, both transformer and x-ray tube are immersed in oil; (2) complete flexibility, tubehead can be pointed in any direction; can be lowered under a table. Finish is optional—black Kristokrak or hammered grey.

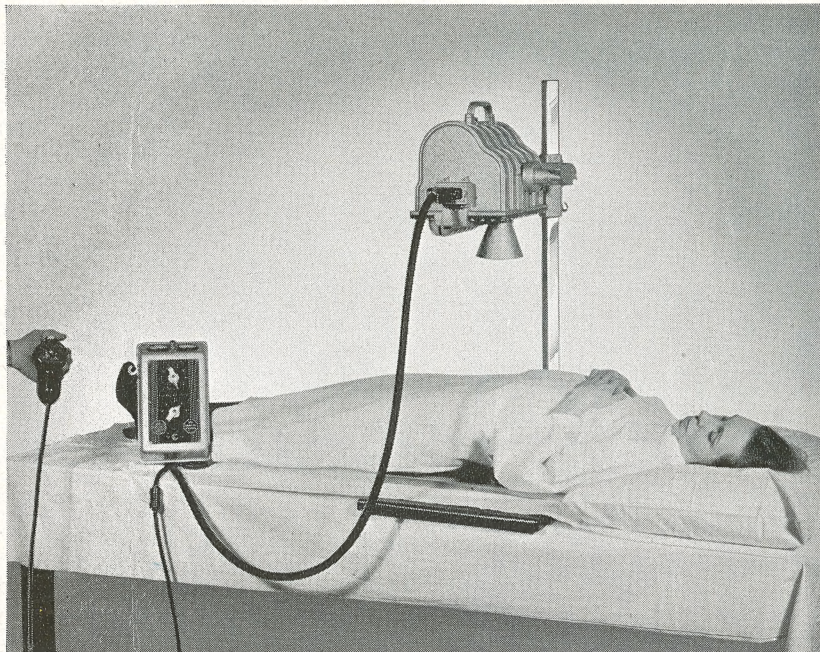
No.		Code	Price
4478	FISCHER Model "GA-15" Shockproof X-Ray Apparatus .....	TIBTU	<del>\$560.00</del> \$575.00
4479	FISCHER Model "HA-10" Shockproof X-Ray Apparatus .....	TIBUX	<del>\$485.00</del> \$500.00

Ask for descriptive pamphlet Form 1866





FISCHER Model "G" Portable X-Ray Apparatus

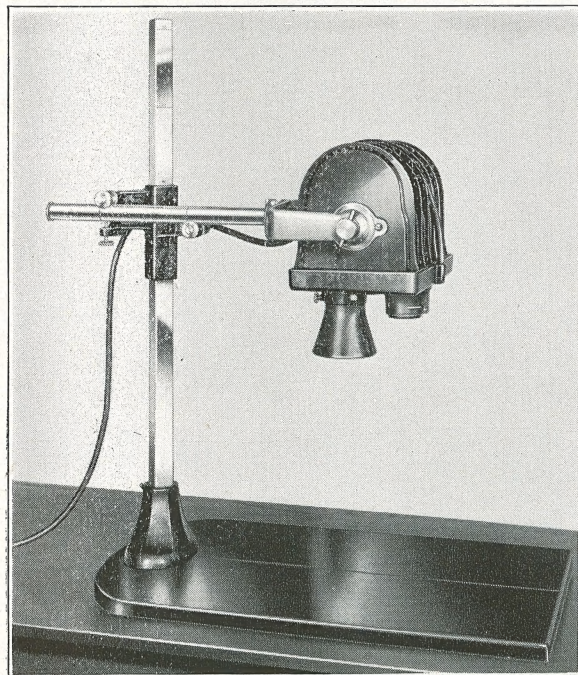


THIS unit is available in the arrangement shown — including tubehead, table stand, control box and hand timer. It has been designed to provide a truly portable unit giving fine performance at low cost. The following features are worthy of note: The unit is shockproof throughout; power is up to 15 M.A. and up to 85 P.K.V.; both radiography and fluoroscopy are available; the latest-type, fine-focus tube gives exceptional definition. With the special control box, both milliamperage and kilovoltage are variable. The hand timer measures time in one-fourth seconds, maximum 12 seconds. Quality materials and construction are used throughout. Finishes are black Kristokrak or hammered gray and chromium. Ivory finish at slight additional cost. When desired, this Model "G" may be had mounted on a special stand with four adjustable legs.

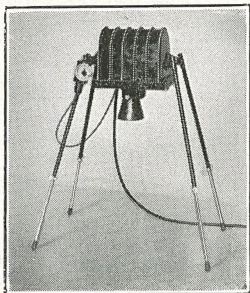
No.		Code	Price
4482	FISCHER Model "G" Portable Shockproof X-Ray Apparatus, including tubehead, table stand, control box and hand timer.....	TICAC	\$515.00
4483	Same as above except table stand replaced by special stand with four adjustable legs.....	TICCA	507.50

Ask for descriptive pamphlet Form 1810

FISCHER Model "H" Portable X-Ray Apparatus



IN designing FISCHER Model "H", the purpose has been to provide a portable unit to meet specific needs. This unit is available either with table stand mounting or with adjustable-legs mounting as shown. There is no remote control box. The following features are worthy of note: The unit is shockproof throughout; it is easily portable; flexibility is marked; power is up to 10 M.A. and up to 67 P.K.V. Operation is very simple and both radiography and fluoroscopy are available. The tube gives exceptional definition. Construction throughout is highest quality. The finish is black Kristokrak or hammered gray and chromium. Special finishes at slight extra cost.



No.		Code	Price
4408	FISCHER Model "H" Portable Shockproof X-Ray Apparatus, table stand mounting.....	TAEJK	\$450.00
4125	FISCHER Model "H" Portable Shockproof X-Ray Apparatus, adjustable leg mounting.....	TAMEB	450.00

Ask for descriptive pamphlet Form 1755C

FISCHER Model "SP-60"

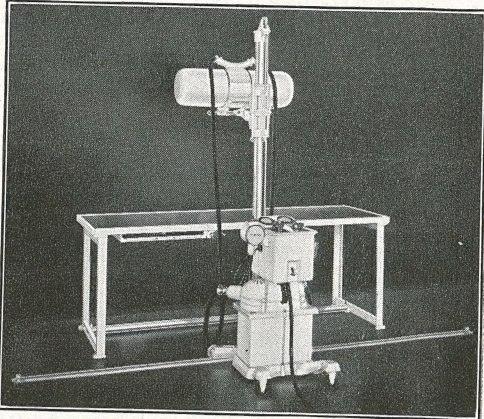
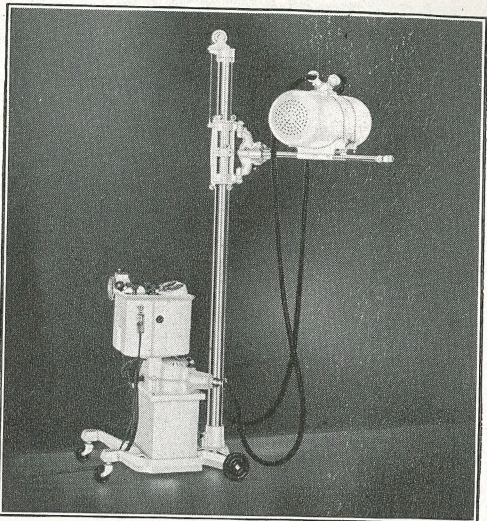
AVAILABLE with table or Wall Frame and Bucky or as Mobile Unit. Primarily a radiographic unit, although excellent fluoroscopy also possible.

Features of STRUCTURE-OPERATION

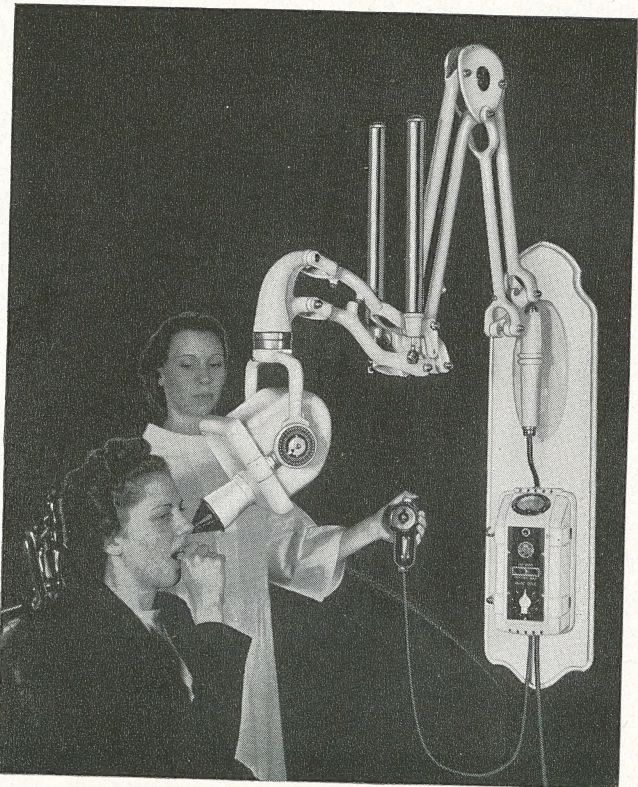
- 1 Positively SHOCKPROOF . . . when properly grounded.
- 2 Superior in POWER . . . when operating on an adequate 220 volt line, 60 M.A. are delivered through the tube at 88 K.V.P. (full 5" gap). 30 M.A. are delivered at 88 K.V.P. on a 110 volt, 60 cycle line.
- 3 All-diagnostic RADIOGRAPHY . . . also FLUOROSCOPY . . . available. The variable milliamperage and kilovoltage permits the exact penetration needed.
- 4 COMPACTNESS and MOBILITY are features. Only small space needed for installation.
- 5 Lifetime DEPENDABILITY . . . is built into this "SP-60." All materials and parts, timer, tubes, and so on, are the best produced.
- 6 The controls are visible and convenient. There is a double control for each meter.
- 7 The TUBE . . . is the special FISCHER-built latest type, very-fine-line-focus, hot cathode X-ray tube.
- 8 Attractive FINISH . . . black Kristokrak and chromium or special at slight additional cost.

No.		Code	Price
3850	FISCHER Model "SP-60" Shockproof Radiographic Apparatus .....	JABON	\$995.00
3852	FISCHER Model "SP-60" (same as No. 3850) with Table and Bucky.....	JACAR	1340.00
3858	FISCHER Model "SP-60" mounted on rail, including Table and Bucky.....	JADEO	1340.00
3856	FISCHER Model "SP-60" Shockproof Radiographic Apparatus, including Wall Frame and 36" Bucky..	JAKOT	1465.00

May be had with FISCHER Tilt Table.  
Ask for descriptive pamphlet Form 1553



FISCHER Wall-Mounted Shockproof Dental X-Ray Apparatus



A HIGHEST-QUALITY apparatus, embodying every advanced feature, of mechanical and electrical construction. Designed for wall-mounting only. Among outstanding features are the following:

1. This unit is absolutely shockproof throughout. No exposed high tension wiring.
2. It is 100% flexible. All positions easily and instantly obtainable while patient remains seated in the dental chair.
3. Power is more than ample and radiographic results are excellent.
4. Control is very fine. Angles can be reproduced.
5. Construction is very compact. Only the finest materials are used. Tube and transformer housed in one-piece drawn steel tank.
6. Optional finish—ivory or mahogany.

No.		Code	Price
4485	FISCHER Wall-Mounted Shockproof Dental X-Ray Apparatus .....	TIBRS	\$750.00 \$725.00

Ask for descriptive pamphlet Form 1869



# FISCHER Shockproof "DENTAL-X"

*Absolutely safe electrically . . . superior in power . . . 100% flexible . . . mobile . . . and assures finest radiographic results.*

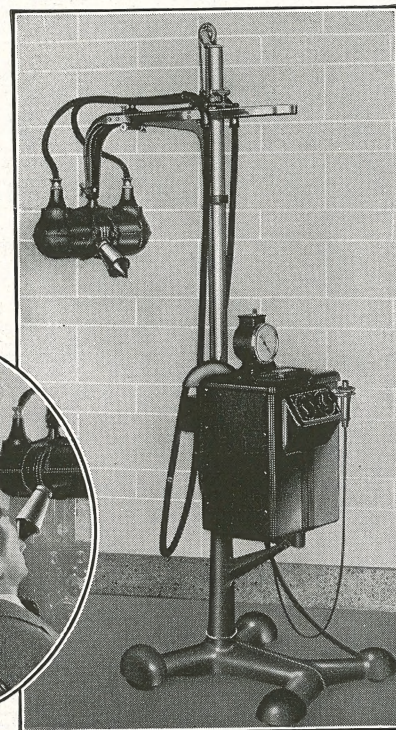
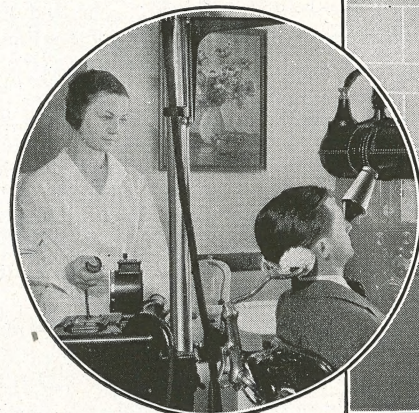
THIS FISCHER Shockproof "DENTAL-X" is unique in its field. In the first place, it has far more power than any competing apparatus—at 67.5 P.K.V., it delivers 20 M.A. through the tube. This means much greater speed in exposures. The tube may be used farther from the object for clearer detail. In the second place, both kilovoltage and milliamperage are variable, and under separate controls, affording the exact penetration needed. In the third place, every position necessary can be obtained immediately while the patient remains seated in the dental chair. Easy mobility is made possible by large wheels and casters.

## Features of Construction and Operation

This unit embodies every known feature of sound electrical and mechanical x-ray construction. It will give a lifetime of dependable service. Construction is very compact. Controls are simple. The tube is FISCHER-built of the fine-line-focus. The synchrotimer measures time in 1/10 seconds. There is a remote control switch. Counterbalancing is exact. Friction locks are provided. There is a lead box for film protection. Optional finish—black, mahogany or ivory. Metal parts chromium. Operates on a 110 volt, 60 cycle line.

No.	::	Code	Price
3832AB	FISCHER Shockproof "Dental-X"	SACRR	\$775.00

Ask for descriptive pamphlet Form 1540D.



# FISCHER "DENTAL-X"

ALTHOUGH not shockproof, this unit is absolutely safe electrically. It was designed to embody two ideas—(1) to give service of highest quality and (2) to be priced within the means of every dentist. The special features include: 1. Ease of manipulation. Any position desired can be obtained almost instantly. 2. Simplicity of electrical controls. All switches, meters, timers, controls are at your finger tips. 3. Mobility. The unit can be moved anywhere easily. 4. Automatic circuit breaker absolutely protects both patient and operator. 5. Duplication of positions. Dial indicates exact angles. The price quoted covers the FISCHER hot cathode tube, heavy duty transformer, lead glass shield, volt meter, milliamperage meter, time switch, circuit breaker, dental cone, flexible tube carrier. The finish is clear-grained mahogany, polished aluminum and chromium—black or ivory if preferred.

## ADVANTAGES

- 1 It uncovers additional work and convinces patients of the need to have work done.
- 2 It adds to income by radiograph fees and naturally fees from the additional work uncovered.
- 3 It satisfies patients because they see actual conditions—helps dentists to convince patients when work needs to be done.
- 4 It helps you to retain patients—proves to be an excellent good-will builder.
- 5 It helps you to check the accuracy of your work.
- 6 You can do radiographic work for other dentists and physicians.

No.	::	Code	Price
2240	FISCHER "DENTAL-X" Chromium Plate	DEMTA	\$595.00

Ask for descriptive pamphlet Form 1183A.

# FISCHER Model "CSWI" Combination Cabinet

**Combines, in one cabinet,  
Short Wave, a Galvanic Current,  
Desiccation, Cautery,  
a Diagnostic Circuit, Pressure  
and Suction**

A REMARKABLE unit, designed for the eye, ear, nose and throat specialist, and equally valuable for other physicians who desire such facilities. The cabinet has motor and 2-cylinder pump that delivers both steady and vibrating compression and vacuum . . . the compression and vacuum working off separate pumps. The short wave apparatus is an all-service unit—12 meter wave length. In addition this cabinet has a separate generator for high frequency to be used for fulguration or desiccation. A separate and complete generator for the galvanic current. There is also hot cautery and a diagnostic light circuit. Briefly, there is compression for atomizing and nebulizing, vacuum for such purposes as is desired, short wave in all of its application including coagulation, galvanic current for ionization and a fulguration current for fulguration or desiccation for warts, moles, and so on. Materials and construction are the finest.

## FEATURES OF STRUCTURE—OPERATION

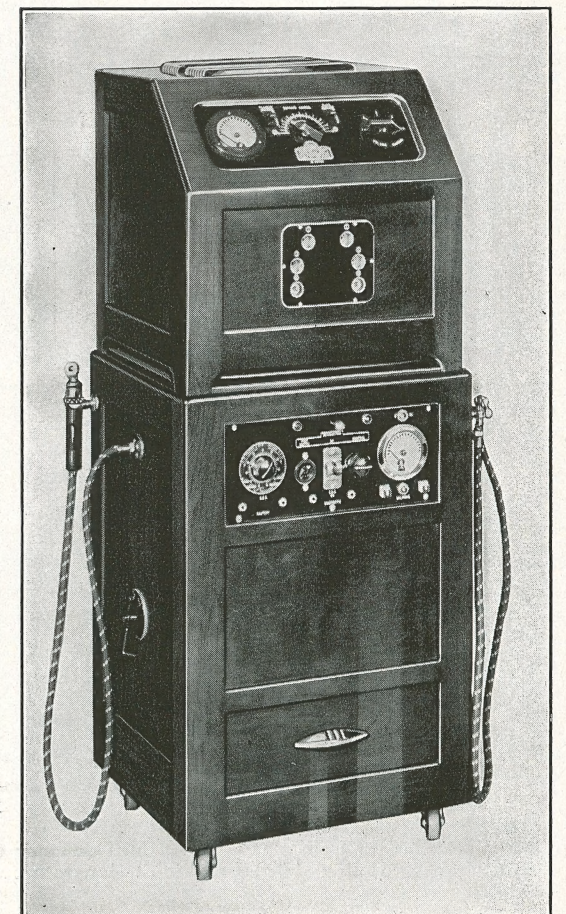
- 1 Short wave facilities. The short wave unit embodied in this Specialist's Cabinet provides all short wave applications.
- 2 Ample power. It is a simple matter to heat any area large or small.
- 3 Electro-surgery (coagulation). Electrodes plug directly into patient's outlets.
- 4 Electro-surgical tissue-cutting. A fine tissue-cutting current also available.
- 5 Galvanism. This is a straight line, galvanic current, perfectly smooth and under very fine control.
- 6 Desiccation (fulguration). Power is adjustable, ample, current unipolar, high voltage, low amperage.
- 7 Cautery. Actual, low voltage, high amperage, under fine control.
- 8 Diagnostic Circuit. Illuminates bulb furnished with cabinet. Will illuminate most any bulb used for diagnostic purposes.
- 9 Suction and suction-vibration. Under fine control. Produces about 14.5 vacuum. Pressure and pressure-vibration. Pressure up to 26 lbs. Sprays—for atomizer, nebulizer, powder blower and similar sprays.
- 10 Finish optional—mahogany or ivory. Metal parts chromium.

## List of Accessories Included with Cabinet

1 Cat. No. 301 Cautery Handle (adjustable to five positions).	2 Cat. No. 3456 Pad Type Short Wave Electrode.
1 Cat. No. 305A Cautery Knife.	1 Cat. No. 3460 Cuff Type Short Wave Electrode.
2 Cat. No. 307 Cautery Cords.	1 Cat. No. 3461 Cuff Type Short Wave Electrode.
1 Cat. No. 335 Diagnostic Illuminator (cords, holder and lamp).	1 Cat. No. 3932 Inductance Cable.
1 Cat. No. 3974 Dillinger Electrode.	1 Cat. No. 1900 Galvanic Needle Holder.
3 Cat. No. 1520 Bottles with Rubber Stoppers.	1 Cat. No. 1901 Dozen Galvanic Needles.
1 Cat. No. 1521A Atomizer.	1 Cat. No. 1931 Pair Galvanic Cords.
1 Cat. No. 1522A Nebulizer.	1 Cat. No. 690 Flexible Pad Electrode.
1 Cat. No. 1523A Powder Blower.	1 Cat. No. 1582 Can Motor Grease.
1 Cat. No. 1551 Medium Vibratode (metal holder).	1 Motor and Pump Instructions.
1 Cat. No. 1551R Soft Rubber Cap for No. 1551.	

No.	::	Code	Price
3912B	FISCHER Model "CSWI" Combination Cabinet— with accessories	DAGMR	\$665.00
3914B	Cabinet without Motor and Pump and Air Accessories	DAGPS	515.00
4020	FISCHER Model "CSWI" with Separable Base— including accessories	SADMM	680.00
4022	Base only, including all facilities except short wave—also accessories	SADRR	315.00
4024	Base Section only with Facilities for Suction and Pressure with accessories.	SADSS	170.00
4026	Base Section only with Facilities for Galvanism, Desiccation, Cautery, Diagnostic Accessories only.	SADTT	185.00

Ask for descriptive pamphlet Form 1581A





FISCHER Ultra-Violet Generators



FISCHER Model "K"  
Ultra Violet Generator

FISCHER Model "K" Ultra Violet Generator is compact, attractive, mobile—mounted on free-rolling casters. The transformer is placed very low, giving great stability. The reflector is highly polished, backed by moulded bakelite. The cross-arm is instantly adjustable. The upright may be extended to 60". A spring in the upright prevents cross-arm and reflector from jar and possible damage, should it be accidentally released or dropped during adjustment. There is an automatic timer in the transformer housing, also plush-lined pocket for holding and protecting orificial burner. There are two powerful burners, one for orificial use and the large grid-type burner for surface applications. The design of the reflector assures even distribution of the ultra-violet rays over body surfaces. The ultra violet radiation is known as "cold" ultra violet. Only the purest quartz is used. A primary advantage is that the burners do not deteriorate. The spectrogram shows that the rays generated range from 1849 to 3900 AU—with a very great intensity of output around 2550 AU. Naturally output is instant—there is no waiting before application can be made—an important saving of time.

FISCHER Portable  
Ultra Violet Generator

FISCHER Portable Ultra Violet Generator, in performance, is similar to Model "K". It affords orificial treatments, irradiations of localized skin areas and of more general body parts. It is mounted in a substantial carrying case as shown. Two powerful burners are provided—one for orificial applications and one for localized skin areas or more general body parts. A pure quartz speculum is provided with this portable unit. The reflector is for use in general body radiations. An automatic timer is also a feature.



VIEW ABOVE: Shows orificial and grid-hood burners. One advantage of construction is that grid-hood may be removed from cross-arm and held in any position over patient. Note low transformer and housing which makes for stability.

VIEW LEFT: Shows portable generator. Note two burners, reflector and pure quartz speculum. Applications made with either burner may be either "high" or "low" in intensify.

FEATURES of STRUCTURE - OPERATION

- 1

FISCHER Ultra Violet Generators are available in two models—the large office or hospital model and the portable model.
- 2

In both models, the output is more than sufficient for all application needs. Output also remains constant.
- 3

FISCHER generators have been designed to produce rays ranging from 1849 to 3900 AU. The greatest intensify of output is around 2550 AU.
- 4

Both the office or hospital generator and the portable generator afford complete ultra violet therapy. Each unit is equipped with two burners.
- 5

Patient and operator are safe when these generators are operating. There is no possibility of electric shock nor danger from hot mercury.
- 6

An outstanding advantage in using either of these generators is the saving of time in making applications. Treatment can begin the instant the current is turned on.
- 7

Flexibility is provided in Model "K" by the adjustable-arm and upright, also by the removable grid-burner. The portable unit is easily carried.
- 8

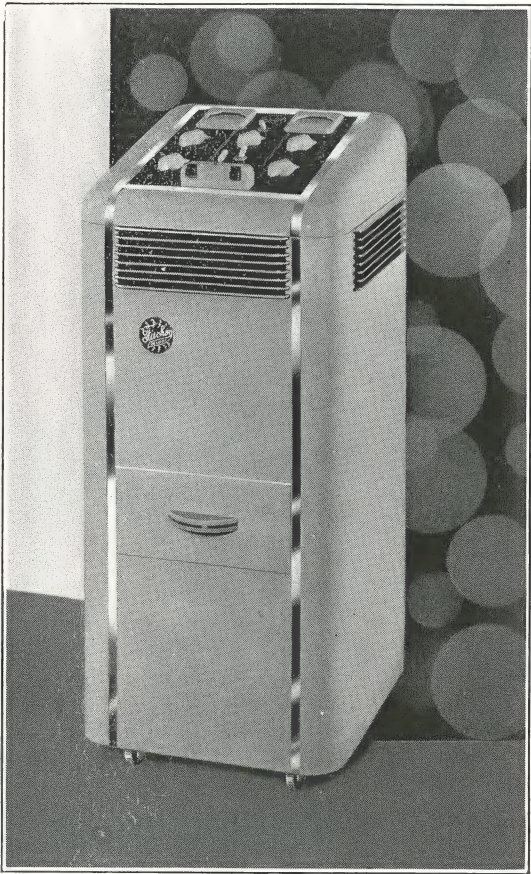
Only the finest materials and workmanship are used. The quartz is purest quality.
- 9

Finish is optional—black, hammered gray or ivory. Various metal parts are in chromium. The portable unit is covered in Du Pont fabrikoid.
- 10

All H. G. FISCHER & CO. apparatus bears the well-known trade mark—"H. G. FISCHER & CO., CHICAGO, ILL."—within the electric disc. Look for this trade mark. It is your protection.

No.		Code	Price
4370	FISCHER Model "K" Ultra Violet Generator (Unit without orificial burner—\$255.00).....	TATXX	\$295.00
4080	FISCHER Portable Ultra Violet Generator.....	TAMPO	160.00
3989	Quartz Speculum for FISCHER Ultra-Violet Generators .....	SACCG	4.50
4382	Orificial Ultra Violet Burner for use with FISCHER Short Wave Apparatus .....	TIBEC	20.00

Ask for descriptive pamphlet Form 1791



FISCHER Model "J"  
Galvanic and Contractile  
Currents Generator

A GALVANIC and contractile currents generator is one of the most widely indicated and most frequently useful units of electrotherapeutic apparatus. This FISCHER Model "J" Generator meets every need and is recommended both by finest performance and remarkably low price.

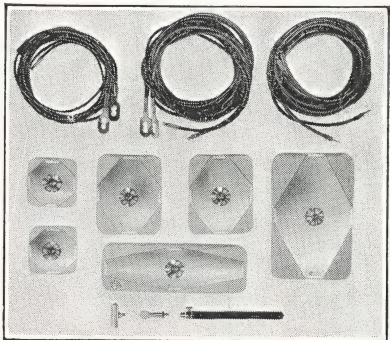
FISCHER Model "J" Galvanic and Contractile Currents Generator produces all the low voltage currents approved by authorities. The galvanic current is straight line and all contractile currents exact as to wave form—they will remain exact as long as the apparatus is used—due to the heavy, patented flat commutator. Control is exceptionally fine, incomparably in advance of control in former units. Currents wanted are selected by simply turning the two current selector switches to the proper numbers. Whether used for medical galvanism, common ion transfer, or surgical galvanism, this generator will give wholly satisfactory performance.

ACCESSORIES

View above shows new FISCHER Model "J" Galvanic and Contractile Currents Generator. View right shows accessories included with generator—connecting cords, electrodes and handle. Among special features to be emphasized are the following: The current chart on the control panel, giving keys to currents wanted, the quick-reading meters, the slip-proof patient's outlets, the silent operation of the unit. Construction is in every way highest quality. The cabinet is all-steel. A choice of finishes is offered—black Kristokrak, hammered gray, or ivory.

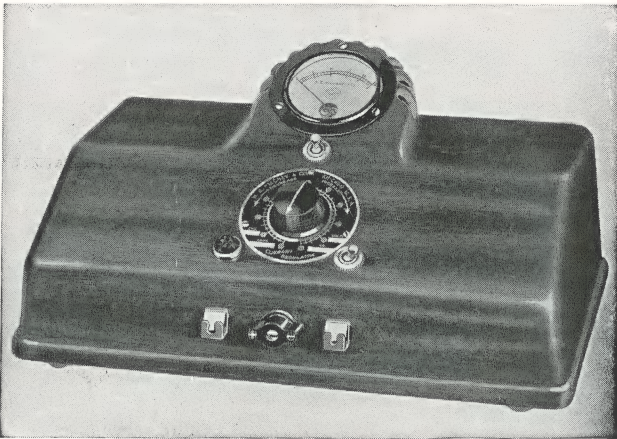
No.		Code	Price
4301	FISCHER Model "J" Galvanic and Contractile Currents Generator with Connecting Cord and Accessories as listed above .....	TATAB	\$450.00

Ask for descriptive pamphlet Form 1836A



FISCHER Galvanic Current Generator

THE extreme importance of the galvanic current in the practice of modern medicine is recognized by the majority of physicians of today, in gynecology, urology, etc., for depilatory work, ionization, rectal lesions, electrolysis, strictures, etc. The outstanding features of this unit are: perfect smoothness of the current; a galvanic output comparable to that of a battery source absolutely without fluctuation; noiseless operation; a polarity switch for pole-changing; a pilot light; black leatheroid finish. The current volume is controlled down to 1/25th part of a milliampere. This means that with this apparatus you can employ galvanism for all of its varied uses without any jerky or painful sensations, a value which will be apparent at once to the physician.

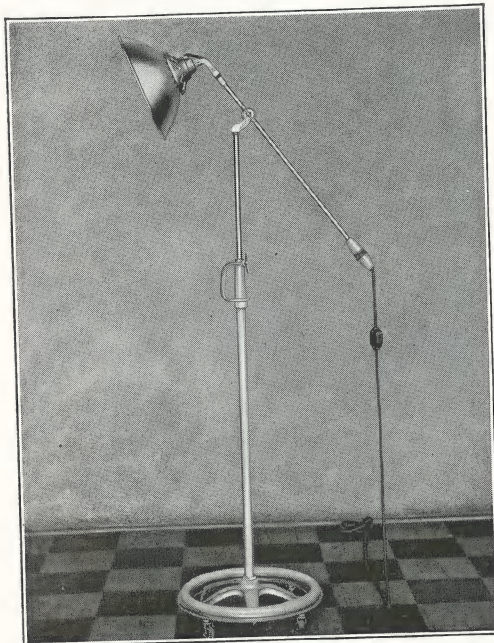


No.		Code	Price
2552	Improved Galvanic Current Generator only (A. C.).....	ZITWY	\$115.00
2553	Special Stand for No. 2552.....	GALZE	22.50

Ask for descriptive pamphlet Form 1299F.



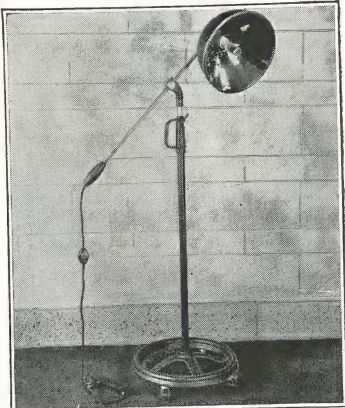
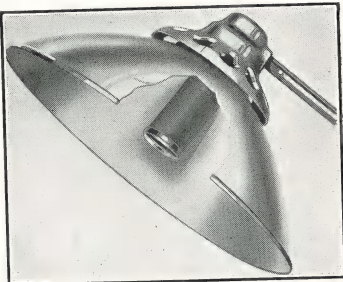
FISCHER Infra-Red Generator



FISCHER Infra-red Generator includes connecting cord for electrical outlet. Switch in cord. Note adjustable upright. Reflector mounting also adjustable, permitting operator to direct rays at will. Convenient handle for moving or carrying. Finish is beautiful ivory. Reflector, polished aluminum.

MADE in two styles—regular model as shown in large illustration and model with faceted reflector (lower right). Base and standard are the same in both models. The stand is adjustable, also arm carrying reflector. Reflector may be raised to over 6 ft. from floor or lowered to within 2 ft. of floor. Diameter of reflector, 11 inches. Weight of reflector is accurately counterbalanced. Base mounted on free-rolling casters. No. 4225 has special bakelite-covered hood, retaining coolness.

The heating element used in this generator is durable, will not flake. The deep, penetrating infra-red rays are produced, rather than visible rays. May be had in either 200 or 400 watt sizes. Unscrews for replacing.



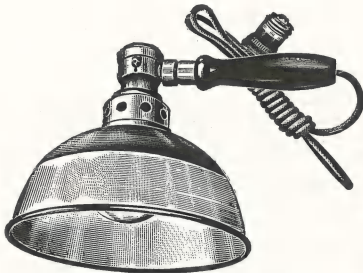
At top: View of heating element. At bottom: Generator with faceted reflector. Finish, black.

No.		Code	Price
4225	FISCHER Infra-red Generator with bakelite covered hood .....	TEDEF	\$32.50
2281	FISCHER Infra-red Generator—Regular Reflector—400 watt element.....	NEWRE	27.50
4039	FISCHER Infra-red Generator—Faceted Reflector—200 watt element.....	TAFFA	28.00
4040	FISCHER Infra-red Generator—Faceted Reflector—400 watt element.....	TAGAB	28.00
2282	400 watt Infra-red Element.....	ELRED	4.00
2284	200 watt Infra-red Element.....	ZECUX	4.00

Replacement charge on Infra-red Elements \$2.00 plus old Element

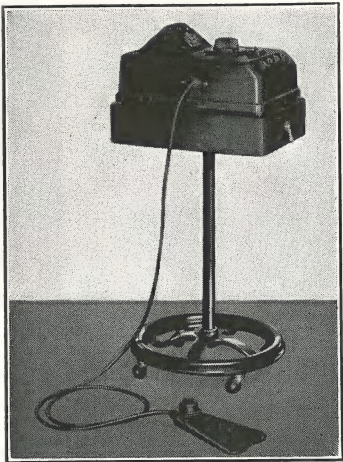
FISCHER Therapeutic Lamps

Equipped with a highly polished 8½" aluminum reflector, a 260 watt genuine stereopticon bulb, a standard length cord and attachment plug. Furnished for 110-125 volts only.



No.		Code	Price
4215	8½-inch Aluminum Reflector with bulb, cord, plug and switch—5-inch enameled wood handle.....	SACXX	\$3.00
4216	Table Type same as No. 4215, but provided with a cast iron base, nickel plated upright, upper section of which is flexible tubing adjustable to any position. Height 30 inches.....	SADAA	5.80
4217	Floor Type same as No. 4216. Height 54 inches.....	SADAB	6.80
166	128-watt Stereopticon type bulb.....	HECTI	1.75
167	260-watt Stereopticon type bulb.....	USOLA	1.00
168	375-watt Stereopticon type bulb.....	HEGAR	3.70
181	1000-watt clear bulb .....	UDDER	6.00
183	1500-watt clear bulb .....	UHASE	8.00
182	1000-watt blue "daylight" bulb.....	UGRIC	6.50
184	1500-watt blue "daylight" bulb.....	UHLAN	10.00

FISCHER Model "S-D" Surgical Diathermy Unit



DESIGNED for surgical diathermy or electrocoagulation. It will be found particularly acceptable by physicians who prefer to limit their applications of diathermy to this character of work. The current produced is ground-free, shockproof, and faradism is totally eliminated. The unit is suitable in every way for the heaviest coagulating as well as for the finest work about the eye. The control is so fine that the volume may be gradually brought down to absolute zero.

For tonsillectomies, electrocoagulation in endocervicitis, treatment of hemorrhoids, work about the eye, ear and nose, the removal of surface blemishes, and the like, this unit will prove of the greatest service and convenience. Eye, ear, nose and throat specialists, urologists, gynecologists, proctologists, dermatologists and general physicians, not now equipped with surgical diathermy apparatus, are invited to send for the facts about this new unit. Finish black.

No.		Code	Price
2575	With connecting cord, but without stand or accessories.....	ZETOP	\$167.50
2576	Stand .....	ZEBOT	22.50

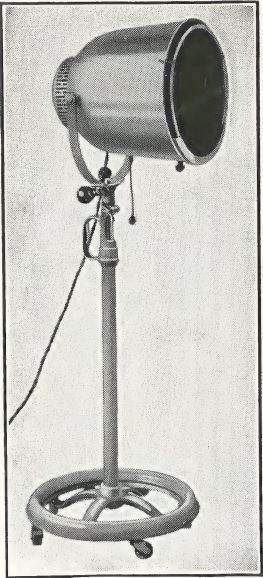
Ask for descriptive pamphlet Form 1322A

FISCHER Model "O" Carbon Arc Lamp

THIS UNIT delivers as much Ultra-violet, Visible and Infra-red radiation as any carbon arc lamp now on the market operating on a lighting circuit. Will operate equally well on alternating or direct current. Localizing Cones furnished if desired.

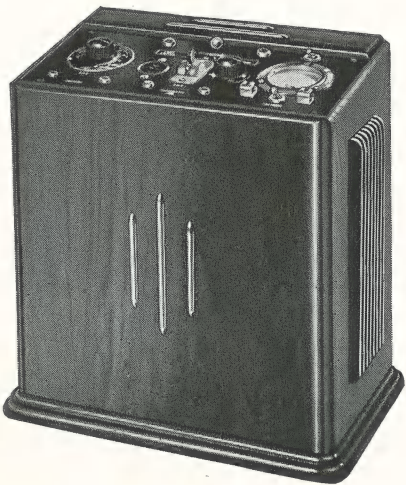
No.		Code	Price
2286	Model "O" Twin Carbon Arc Lamp, including 12 "C" Ultraviolet Carbons, 2 pair of Eye Protecting Goggles, Protection Screen and Connecting Cord .....	TWINO	\$59.50
2291	Set of 3 Localizer Cones consisting of the holder with 4-inch opening and the 2 auxiliary cones reducing to 1 inch and 2 inches, respectively.....	SETCO	10.00

See page 41 for available carbons. Ask for descriptive pamphlet Form 1193.



FISCHER "CDDG" Combination

Combines in one compact, handy unit facilities for Cautery, Desiccation, Diagnostic Light, and Galvanism.

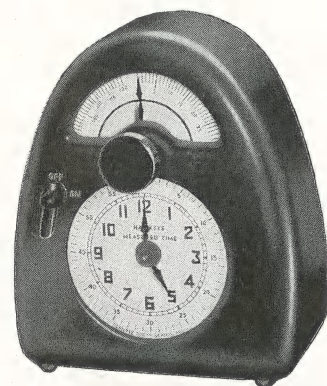


Features Are: 1. Cautery current is the finest possible, permitting a continuous increase or decrease of power—no jumps. 2. The desiccation current is especially delicate and suitable for its purpose, high voltage, low milliamperage. Adjustable spark gap. 3. The diagnostic light circuit lights any bulb used for diagnostic purposes. Bulbs can be lighted to desired brilliance, avoiding burnouts. 4. The galvanic current is perfectly smooth, as from battery source. Operation, noiseless. Voltage output ranges from 0 to 100—milliamperage from 1/5 M.A. to 25 M.A. Current reversible. 5. Insulation is highest quality. Outlets are clearly marked and permanent. 6. Necessary accessories, handles, cords, and so on are included with unit. 7. This unit carries the usual strong FISCHER guarantee of satisfactory performance. It will give long years of efficient service.

No.		Code	Price
4007	FISCHER "CDDG" Combination with necessary accessories. [Cat. Nos. 301, 305A, 307(2), 335, 3974, 1900, 1901, 1931(2), 6901].....	TAIJJ	\$185.00

Ask for descriptive pamphlet Form 1637

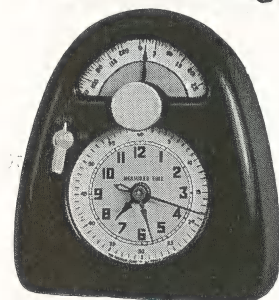




## Hawkeye Timer

**R**EGISTERS the length of any treatment exactly. A wonderful aid to accurate timing, particularly valuable when the physician is treating more than one patient at a time. The Hawkeye rings an alarm at the exact moment treatment should end. Frame is of bakelite. Furnished with black or ivory finish.

No.	::	Code	Price
3917	Hawkeye Timer.....	DABAB	\$5.00

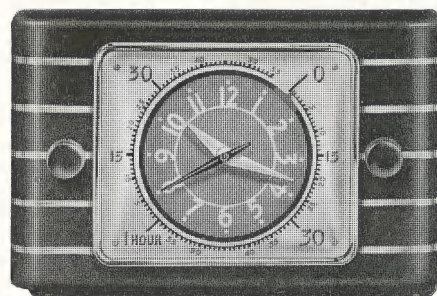


## Hawkeye "Measured Time" Electric Timer

**A**CCURATELY times periods from one second to two hours. On a predetermined minute, gives clear-toned signal, loud or soft, long or short. Conveniently set from the front. A credit to the most attractively appointed laboratory, workroom or office. In rich black or ivory. Alternating current only. Standard 110 volt. 60 cycle. Other cycles special.

No.	::	Code	Price
2050	Hawkeye "Measured Time" Electric Timer.....	RIZLO	\$9.50

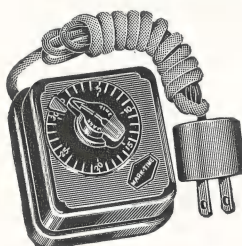
## Synchronous Motor-Operated MINUTE MINDER



Provides accurate time and, when required, serves as a reminder at end of preset interval. Records up to 1 hour and 55 minutes. Operated by sturdy self-starting synchronous motor. For 110 volt, 60 cycle, A.C. In the photographic darkroom, an audible signal is repeated every second as long as required. A second hand provides added convenience.

No.	::	Code	Price
4027	Synchronous MINUTE MINDER, as illustrated.....	TIBJK	\$6.50

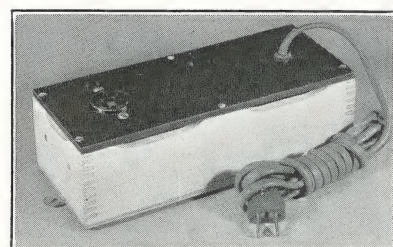
## Combination Automatic Timer and Cut-Off Switch



**H**ERE is a new automatic timing device that adds the advantage of a cut-off switch. The timer can be set for any period—one to thirty minutes—and when the period elapses the switch automatically disconnects the current. This Automatic Timer and Cut-Off Switch is chrome plated with extension cord for plugging into current outlet. Your machine or lamp plugs directly into the device. The scale is marked in one minute divisions. The base dimensions are 2 $\frac{5}{8}$ x2 $\frac{3}{4}$  inches. Height, 2 $\frac{1}{4}$  inches. When not in use can be hung on machine or lamp or placed in cabinet drawer. Very handy and dependable. Makes treatments convenient. Keeps you from forgetting when time is up.

No.	::	Code	Price
2626	New Combination Automatic Timer and Cut-Off Switch.....	ATCOS	\$4.95

## FISCHER Current Kick-Back Suppressor for Use With Short Wave Apparatus



Plugs into line in series with short wave apparatus. Cord attaches to line current outlet. Short wave apparatus plugs into suppressor. Prevents radio disturbance. Protects sensitive electrical equipment attached to power line currents.

No.	::	Code	Price
4030	FISCHER Current Kick-Back Suppressor.....	TAGAE	\$10.00

## FISCHER Dental Coagulator and Desiccator



Above is view of unit, size shown in relation to dental chair — at left views of handles and electrodes used for coagulation and desiccation. Materials and construction are finest quality. Satisfactory performance is guaranteed.

**D**URING recent years, scientists have made extensive researches for the purpose of determining technics in coagulation and desiccation. They have unanimously agreed that both technics should become integral parts of dental practice. Their recommendations are embodied in the apparatus and electrodes shown in the illustration. The designs are the result of countless experiments and have proved in every way efficient and satisfactory in performance. Results in both coagulation and desiccation are remarkable.

### ADVANTAGES

FISCHER Dental COAGULATOR and DESICCATOR consists of the power unit and the coagulating and desiccating electrodes. The electrode tips are sufficient in shape and number to afford access to all parts to be treated. Recommended uses include coagulation in pyorrheic infections, erupting teeth, hyperplastic tissue and so on—desiccation to arrest hemorrhage, for fitting dentures, to produce hyperemia. Full instructions included with unit.

No.	::	Code	Price
3963	FISCHER Dental Coagulator and Desiccator with Electrodes. Ask for descriptive pamphlet Form 1764A .....	TAMZZ	\$110.00

Ask for descriptive pamphlet Form 1764A

## FISCHER Inductance Disc and Flexible Arm



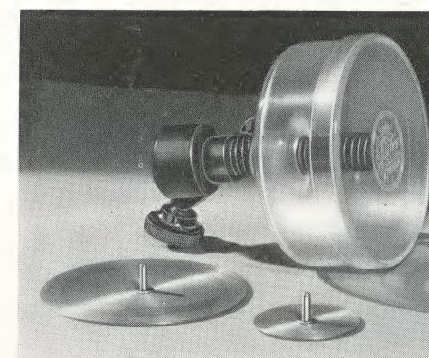
**T**HIS disc and arm provide the most convenient of all ways for applying short wave current. Any application in any position can be made. Further, it gives practically all the therapeutic benefit that can be secured from heat.

The disc itself is made of moulded bakelite, also the flexible arm. Friction springs within the arm hold it firmly in any required position. The disc can be turned in any direction.

Actually, this inductance disc and arm is simply a device for holding an inductance cable in pancake form. The cable is continuous within the disc—and replaceable if ever necessary. Adding this disc and arm to your apparatus in no way disturbs use of your present methods of applying short wave diathermy. It is simply an added modality.

No.	::	Code	Price
4434	FISCHER Universally Flexible Arm.....	TEBAC	\$35.50
4436	FISCHER Inductance Disc only.....	TEBCB	19.50
4432	FISCHER Universally Flexible Arm and Inductance Disc.....	TEAXY	55.00

## FISCHER Air-Spaced Electrodes

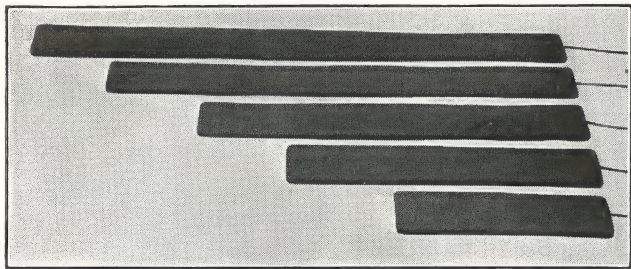


**D**ESIGNED to fit the FISCHER universally flexible arm. Generally used in pairs, although a single air-spaced electrode may be used with an indifferent (pad) electrode. Electrode support made of bakelite. Threads permit varying air-space. Electrode cups are made of lucite. Electrode metal discs are 4" and 2" in diameter. Complete air spaced electrode consists of electrode body, two metal discs and connecting cord.

No.	::	Code	Price
4444	Single Air-Spaced Electrode complete to fit FISCHER Universally Flexible Arm .....	TECAA	\$10.00



FISCHER Condenser Electrodes for Short Wave Apparatus Cuff and Pad



Cuff Electrodes

THESE condenser type cuff electrodes are flexible, intended for wrapping completely around part (trunk for fever). They are made of metal mesh, covered with pliable rubber. Connecting cords are attached. Cuff electrodes are for all purposes. They are especially effective for deep heating and for fever therapy. The most careful laboratory and clinical tests show cuff electrodes to be highly effective in producing results. The list of standard sizes is given below. Any special size will be made to order.

No.		Size		Code	Price
3458	Cuff type	2½" x 12"	Vulcanized	DACOD	\$ 2.80
3459	Cuff type	3" x 18"	Vulcanized	DABDY	4.60
3460	Cuff type	3½" x 24"	Vulcanized	DABRE	5.00
3461	Cuff type	4" x 32"	Vulcanized	DABES	7.15
3462	Cuff type	4½" x 40"	Vulcanized	DACOS	9.85
3463	Cuff type	5" x 48"	Vulcanized	DACRY	12.00
3464	Cuff type	8" x 40"	Vulcanized	DACDO	10.00
3452	Cuff type	9" x 48"	Vulcanized	DAZZO	12.50
3453	Cuff type	12" x 40"	Vulcanized	DAYOZ	12.50



Pad Electrodes

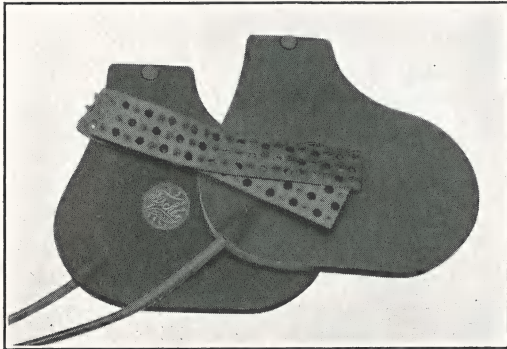
THESE flexible pad electrodes, condenser type, are made of metal mesh, covered with pliable rubber. Connecting cords are attached. Two special variations are shown, for treating sinuses and mastoids. Special sizes of pads, made as above described, are obtainable. The price for any size may be determined by taking \$1.25 as a base price and adding 5c for each square inch of size. All materials used in these electrodes are highest quality. These condenser electrodes naturally are used in either short wave or ultra short wave. Toweling or absorbent padding of some type should always be placed between electrode and skin of patient. Padding for use with sinus and mastoid electrodes listed below.

No.		Size	:	Code	Price
3454	Pad type	2" x 4½"	Vulcanized.....	FONTA	\$2.50
3455	Pad type	4" x 7½"	Vulcanized.....	FEDES	2.95
3456	Pad type	5" x 8"	Vulcanized.....	FEELI	3.60
3457	Pad type	11" x 17"	Vulcanized.....	FEERS	8.25
3599	Pad Type (Mastoid) Vulcanized (includes ½ oz. absorbent padding).....			YAGEL	3.50
3598	Pad Type (Sinus) Vulcanized (includes 1 oz. absorbent padding and four lengths of Cat. No. 3570A rubber bandage).....			YAAFD	7.25
3597	Absorbent Padding for Sinus Electrode, No. 3598, 4-oz. boxes.....			EENCY	.55
3596	Absorbent Padding for Mastoid Electrode, No. 3599, 1½ oz. boxes.....			FENCA	.35

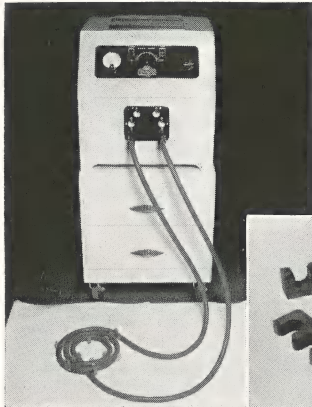
FISCHER Shoulder Pad Electrodes (with Bandage)

THESE are condenser type, pad electrodes, flexible and shaped to use in heating the shoulder. Made of metal mesh covered with rubber insulating composition. Connecting cords are attached. A rubber bandage is included which hooks over moulded "buttons" on the electrodes. Made in only one size.

No.		Code	Price
3898	FISCHER Shoulder Pad Short Wave Electrode— with Bandage—set of two	TAIBA	\$8.25



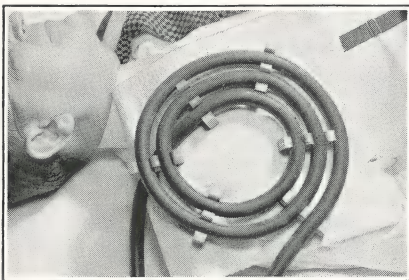
Separator Blocks for Inductance Cable



THESE wooden blocks are designed to maintain uniform air spaces between individual turns or coils of the inductance cable as shown. Coils, of course, may vary in size. When turns of the cable are permitted to touch, there is a loss of efficiency, a loss both in heating of cable at point of contact between turns and in body penetration.

Note how blocks are arranged to prevent turns of cable crossing or touching at any point. Where the inner turn of the cable passes out under the other turns, it is important to so arrange one separator block that contact of cable surfaces is prevented. Separator blocks are available singly or in sets. They provide for one and three-quarter turns or more, as desired.

No.		Code	Price
3934	Separator Blocks for Inductance Cable	SACWW	\$0.10



Inductance Cable

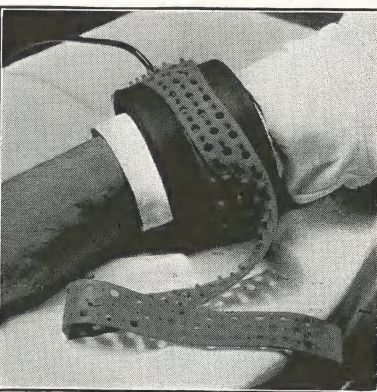
A SEMI-FLEXIBLE rubber-covered conductor with special-size end attachments to fit into inductance cable outlets on FISCHER Short Wave Apparatus. The large end attachments prevent plugging into wrong outlets. Wraps easily around body, limb, ankle or wrist. Usable as coil on shoulder or other part. Excellent for heating deep-seated areas or for fever production.

No.		Code	Price
3932	Inductance Cable	YAGEI	\$14.50

Perforated Self-Locking Rubber Bandage

AN EXTREMELY handy device for fastening condenser electrodes in positions wanted. Note the illustration. Made of pure gum rubber. In use, a slight pull stretches the bandage to the pressure wanted and the small protuberances drop into the perforations, holding firmly. No tying. No buckling. A time saver.

No.		Code	Price
3570	Perforated Self-Locking Rubber Bandage (40" Long)	TREFO	\$0.75
3570A	Perforated Self-Locking Rubber Bandage (18" Long)	JACMY	.40



Molded Bakelite Prostatic Electrode



THIS electrode is made in two sizes—of pure molded bakelite over metallic core. Cord attached. Scientifically shaped for its purpose. May be sterilized. Large size, 1" wide, 3" long, on 7" insulated shaft. Small size, ¾" wide, 2¾" long, on 7" insulated shaft.

No.		Code	Price
3844	FISCHER Bakelite Molded Prostatic Electrode—large size	JUKOL	\$12.00
3846	FISCHER Bakelite Molded Prostatic Electrode—small size	IAFDE	12.00

Molded Bakelite Vaginal Electrode



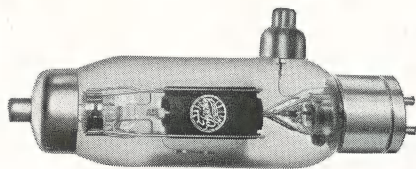
MADE in only one size—as shown. Molded of pure bakelite with connecting cord attached. Scientifically shaped for its purpose. May be sterilized. Width 1½", length 3", on 7" insulated shaft.

No.		Code	Price
3845	FISCHER Bakelite Molded Vaginal Electrode	JUKLA	\$12.00



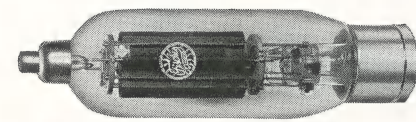
FISCHER Tubes for Short Wave Apparatus

Each FISCHER Custom-Built Tube is individually processed. Some have anodes of carbon, some of tantalum. All FISCHER Tubes are guaranteed for six months against defective materials or workmanship. The following Cat. Nos. list the units of FISCHER apparatus for which FISCHER Tubes are suitable.



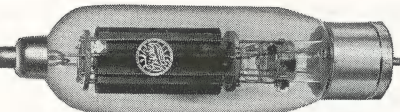
This FISCHER Tube, No. 3580, is for use only on FISCHER Model "USW-6B" short wave apparatus.

No.		Code	Price
3580	FISCHER Power Tube.....	YAAEX	\$21.50



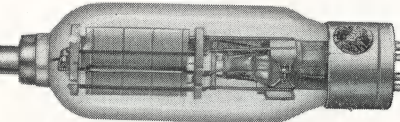
No. 3581, for use on FISCHER Models CSWI, "SWI-12," "SWDI-12," "SWDI-18," "SWDI-24," also FISCHER Models "SW-17" and "SW-24A." In certain short wave applications, the tubes are required to deliver a small amount of power. In other instances, where a large area of the body is to be treated for a high temperature rise, the tubes are called upon to deliver a great amount of power. This tube has a high safety factor, thus eliminating loss of emission in the tube while operating at any level up to full capacity. Note the skyscraper construction; the sturdiness of the large carbon anode and the greater emitting surface in the filament.

No.		Code	Price
3581	FISCHER Power Tube.....	HITAY	\$18.50



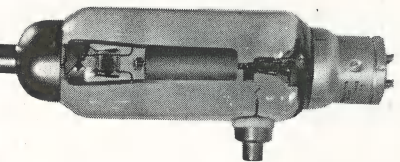
No. 3593, for use on FISCHER Models "C," "SW-12," "CSW," "SW-12" (Portable) and "USW-9A." A medium powered tube. Its characteristics are such that optimum efficiencies can be realized at all loads. The extremely low inter-electrode capacities and its rugged oversize elements and leads, enable it to be subject to severe overloads. Tubes used in short wave equipment must be capable of standing severe overloads and yet insure long life. A tube of this caliber can only be produced by a concern thoroughly familiar with short wave equipment and its requirements.

No.		Code	Price
3593	FISCHER Power Tube—New heavy plate type.....	DAGOA	\$18.50



The unusual electrical characteristics account for the fine performance of this tube. The anode is fabricated from completely de-gassed TANTALUM. The use of this expensive material for the anode prevents the tube from becoming gassy due to operating overloads.

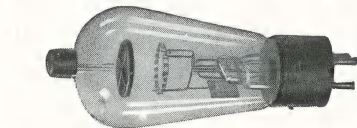
No.		Code	Price
4440	FISCHER power tube—tantalum anode—for use in Fischer Model "M" and "S," "R" and "PR" Short Wave Units .....	TEBDC	\$20.00



For use on all FISCHER 6-meter short wave units excepting FISCHER Model "USW-6B", designed to give high efficiency at high frequencies. Elimination of ceramic insulators between grid and plate connections have eliminated power losses within the tube. Extra heavy grid leads and plate leads to withstand the terrific amount of radio frequency heat that is generated at high frequencies, are used. We incorporate the use of a tantalum anode which dissipates the heat of the tube and also gives the tube a larger safety factor to be able to withstand generous overloading.

No.		Code	Price
4195	Heavy Duty Power Tube—tantalum anode—for use with all FISCHER 6-meter short wave units, excepting FISCHER Model "USW-6B" .....	TAOBC	\$26.00

FISCHER Rectifying Tube for Short Wave Apparatus



No. 3572A, for use on all FISCHER short wave and ultra short wave outfits. This is a reliable, heavy-duty, half-wave, mercury vapor rectifier, capable of withstanding high inverse peak currents and voltage. Constructed sturdily of the highest quality material and workmanship. The filament is of the ribbon type giving larger emitting surface. WARNING: In transit, mercury in tube splatters over filament—therefore, when first placing this tube into operation, filament should be lighted for fully 15 minutes to allow mercury to condense to bottom of bulb.

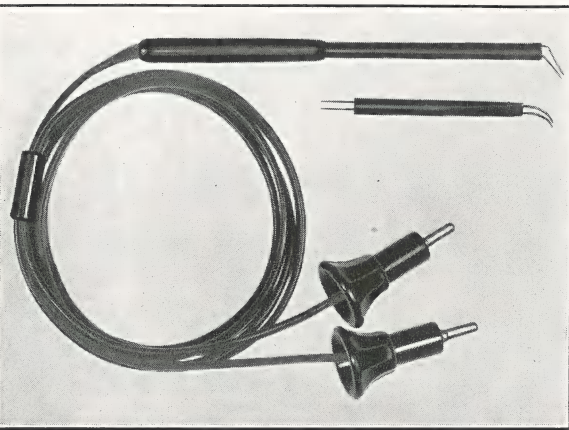
No.		Code	Price
3572A	FISCHER Rectifier Tube.....	FRIGI	\$1.50

WILIMAC Calibrated-Dosage Coagulating Electrode

IN coagulation in endocervicitis, this electrode gives definite control of the length, width and depth of the coagulation—an exclusive feature. Calibration indicates correct dosage for each case. Assures uniform results. Permits of a technic free from scar tissue or stenosis. The only flat-sided electrode. Needs no special manipulation. Just lay it flat against cervical wall. Auxiliary tips are for cysts, erosions, tonsils, moles, epitheliomas and such.

No.		Code	Price
3965	WILIMAC Calibrated-Dosage Electrode for Endocervicitis .....	SACPP	\$20.00
3966	Same as above with tips for cervical canal and cysts and erosions only.....	TALBA	14.50

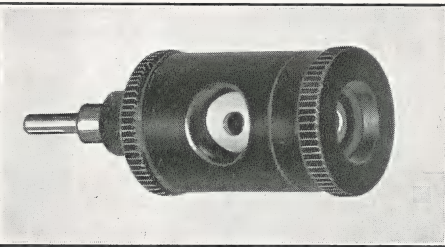
WILIMAC Dental Coagulating Set



MADE with handle, connecting cord and two tips as shown. Coagulation takes place only between gold needles on tips. Needles are fine and flexible. Intended for coagulating in pyorrhea. Design permits operator to reach any part of mouth, between teeth, down to pus pockets. Minimum destruction of healthy tissue. Electrode is not boilable—must be sterilized by cold methods. Can be used with either diathermy or short wave machines. With the latter, the surgical cutting attachment is necessary. (No. 3960 See Page 31.)

No.		Code	Price
3964	WILIMAC Dental Coagulating Set—handle, cord, two tips.....	SACCO	\$15.00

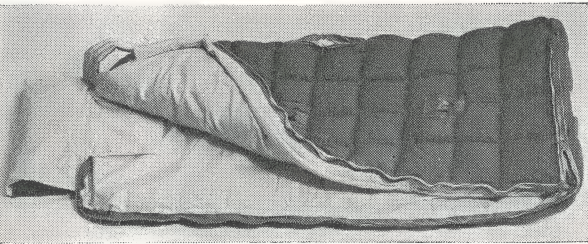
Multiple Connector for Short Wave Apparatus



USABLE when it is desirable to apply two condenser electrodes from the same terminal. Designed and insulated for short wave current.

No.		Code	Price
3976	Multiple Connector for Short Wave Apparatus.....	TAIHG	\$2.35

FISCHER-RANTOS Fever Bag

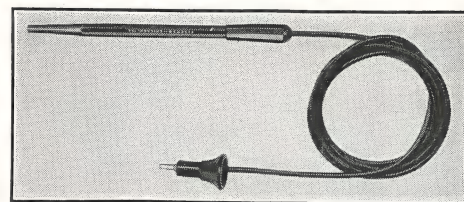


ESPECIALLY designed for use in fever treatments; allows the patient complete freedom of all body movement. The bag is constructed and insulated so that no temperature changes occur, and is a decided advantage over wrapping and restricting patients with blankets. Length, 78"; width, 45"; weight, 17 lbs. Lining: hollandex—a rubber calendered waterproof fabric, easily sterilized, long wearing Insulation: No. 1 prime kapok. Outer covering: waterproof drill, durable, easily cleaned. Color: field green.

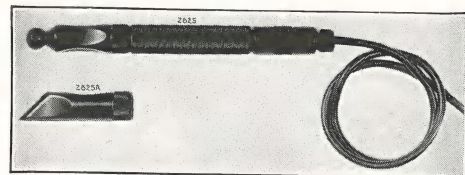
Locking type talon fastener from neck to bottom of bag and across bottom allows for easy accessibility either for cleaning or patient. A lock type zipper (20") at the rear of the bag allows easy accessibility to patient without opening the entire side thereby losing generated heat. Foot and sides of bag built up approximately 8". All zippers are protected by insulated flaps. The heat cannot escape when the zippers are closed. Collar, Russian style, fits closely the neck of the patient; it can be adjusted to any size. Foot and sides built to take weight of bag off patient. Rantos Fever Bag, special, has non-metallic fasteners, additional terry cloth blanket, 78x90, and leather carrying straps.

No.		Code	Price
3936	FISCHER-RANTOS Fever Bag .....	SADJJ	\$54.50
3937	FISCHER-RANTOS Fever Bag, Special.....	TAIXY	59.50

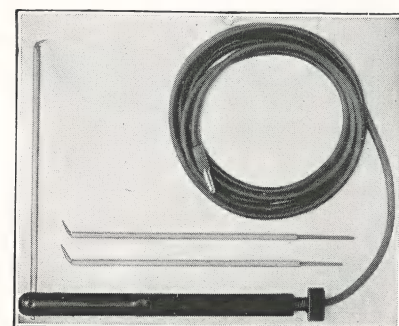




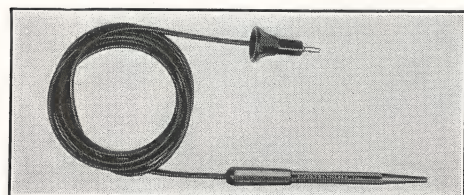
No. 3970



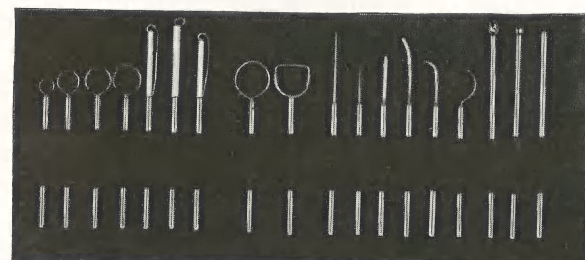
No. 2825



No. 920



No. 3971



## FISCHER Electrosurgical Handles (Electrodes)

THESE handles are designed specifically for tonsillectomies and other electrocoagulations. They are light in weight, and exceptionally handy—operator's hands out of line of vision. A very flexible rubber-covered cable is securely fastened directly into the polished hard rubber handle, and is sufficiently insulated that it may be wound around the hand and arm, or allowed to lie against the face of the patient with positively no danger of shocking. There is no exposed metal anywhere, with the exception of the active tip. Tips of different lengths are furnished, as illustrated. Important points to note are—

- 1 The DILLINGER handle is designed for straight position only. Inside chuck holds electrode firmly. No turning. Octagonal for easy holding. Die-molded of pure black bakelite. Length 8 inches. Boilable.
- 2 The Sinskey handle is constructed with an interchangeable tip affording 45 and 90 degree angles for the coagulating electrodes.
- 3 The Knotts handle affords right angle position. In cross section, shape is rectangular to aid holding. Heavily knurled on sides. Made of hard rubber.

No.	::	Code	Price
3970	The Dillinger Handle.....	DAGRT	\$5.00
3972	No. 3970 Handle with Three Electrodes.....	DAHAO	7.50
2846	Gross Coagulating Set. Handle No. 3970, and three electrodes, 1 straight, 1 angular, 1 curved.....	FERRA	7.50
2825	The Sinskey Handle and separate tips. 1—45°, 1—90°.....	SIHDL	7.50
920	The Knotts Handle and Three Electrodes.....	WAYLA	10.00
3974	FISCHER Short Wave Coagulating Set—consisting of No. 3970 Handle, No. 2847 Angular Ball Point, No. 2431 Straight Ball Point, and No. 736 Straight Needle.....	SABZY	7.50

## FISCHER Electrosurgical Tissue-Cutting Set

THIS set of loops, knife blades, needle points, reamers and coagulating balls with special handles, has been designed for electrosurgical tissue-cutting. The handle is separable for sterilization (boiling), and has a chucking device which prevents the cutting instrument from turning during operation. The set of cutting instruments is sufficiently complete for almost any operative purpose. The complete set is mounted, as illustrated, in a holder. Instruments may be purchased individually as indicated below.

No.	::	Code	Price
3971	FISCHER Electrosurgical Tissue-Cutting Handle, with insulated cord.....	DAGSU	\$5.00

Instruments Are Listed in Order as Illustrated

No.	::	Code	Price
792	1/4" Loop Cutting Electrode.....	WRAIT	\$0.80
794	3/8" Loop Cutting Electrode.....	WIZAR	.80
796	1/2" Loop Cutting Electrode.....	WIZEN	.80
2421	5/8" Loop Cutting Electrode.....	ZATUL	.75
2436	Cervical Reamer (side cutting, short).....	ZIYAL	2.40
2426	Triangle shape Cervical Reamer.....	ZAUDA	2.40
2427	Side cutting Cervical Reamer, with insulated tip.....	ZIZAD	2.40
2420	7/16" Loop Cutting Electrode.....	ZATOK	.80
2425	Square End Cutting Loop—9/16" blade.....	ZIHIG	2.20
799	Needle Point Cutting Electrode—1 1/4".....	WOMBA	.80
2424	Needle Point Electrode—5/8".....	ZIRTY	.80
2423	Straight Knife Electrode—1" blade.....	ZAUSK	1.00
797	Saber-shape Knife Electrode—1 3/16" blade.....	WOLVE	1.00
2422	Saber-shape Knife Electrode—3/4" blade.....	ZAUDT	1.00
798	Curved Knife Electrode—5/8" blade.....	WOLFR	1.00
2432	Coagulating Ball—1/16" diameter.....	ZIDZA	.65
2430	Coagulating Ball—1/8" diameter.....	ZAUCS	.65
2431	Coagulating Tip—3/32" diameter.....	ZIANK	.65
2440	Complete set of 18 Loops, Knife Blades, Needle Points, Reamers and Coagulating Balls, as above, in cloth holder to fit either No. 3970, 3971 or 2825 handles.....	ZAVOL	20.00

## BECK-GUTTMAN Turbinate Coagulating Needle

THE needle is first inserted into the entire depth of the turbinate, the current is turned on for a moment and the needle withdrawn a short distance. This is repeated until the entire length of the turbinate is coagulated. It is well to make a special effort to coagulate the mucosa where the needle was inserted, just before withdrawing it entirely. This is to prevent any possible bleeding from the needle puncture.

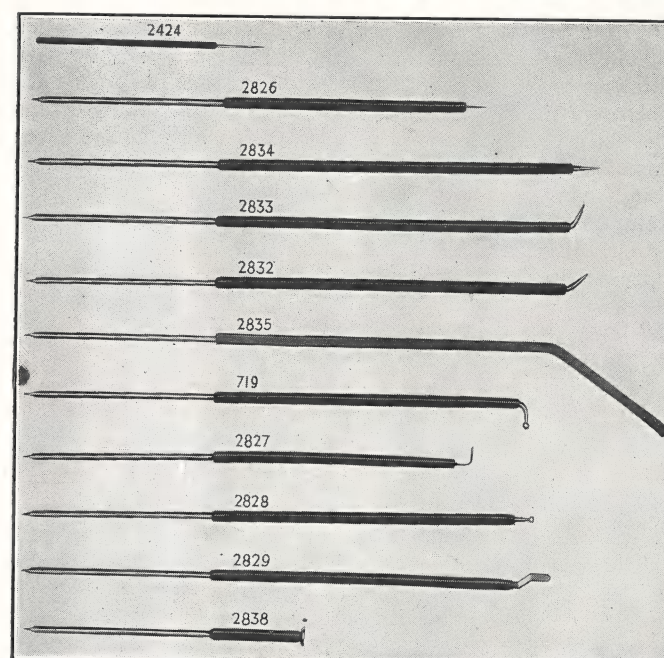
No.	::	Code	Price
2449	Beck-Guttman Turbinate Coagulating Needle (arranged for use with Nos. 3970, 2825, 3971 Handles).....	ZIMIL	\$1.00

## GROSS Short Wave Coagulating Electrode

MADE of rustless instrument steel with bulbous point for use in short wave electrosurgery (coagulation). The rubber insulation is movable to expose more or less of the coagulating tip.

No.	::	Code	Price
2847	Gross Short Wave Coagulating Electrode (Ball Tip).....	TOTER	\$0.85
741	Special Gross Type Needle to fit DILLINGER handle. Active tip bent, 60° angle (sharp point).....	GRODI	.85
2848	Gross Revolving Ball Short Wave Dehydrating Electrode.....	SADHH	1.25

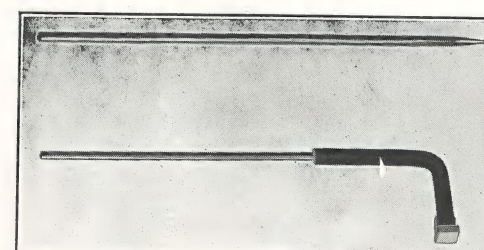
## FISCHER Electrosurgical Electrodes



THE eleven electrodes illustrated are for all manner of electrocoagulation purposes. They are rustproof and well insulated. In the illustration the electrodes are reduced somewhat more than half actual size. Only the best materials are used.

No.	::	Code	Price
2424	Straight, Short Needle. No insulation.....	ZIRTY	\$0.80
2826	Needle Point Electrode. Bakelite insulation.....	SINEE	1.00
2834	Long Needle Point. Bakelite insulation.....	SISTR	1.00
2833	Sharp Point Electrode (45° angle). Bakelite insulation.....	SIANG	1.00
2832	Sharp Point Electrode (60° angle). Bakelite insulation.....	SIARP	1.00
2835	Extra Long (double angle). Soft rubber insulation.....	SIDOU	1.00
719	Long Needle, Curved Tip, Ball Point. Soft rubber insulation.....	COHLO	1.50
2827	Right Angle, Flat Tip. Bakelite insulation.....	SITIP	1.50
2828	Medium Length, Ball Tip. Bakelite insulation.....	SIBAL	1.00
2829	Offset Flat Tip. Bakelite insulation.....	SIOFF	1.00
2838	Short Shank (1/4" slightly concave face). Bakelite insulation.....	TOREK	1.00

863	Special Long Coagulating Needle of polished aluminum wire. May be bent as desired. Insulated as shown.....	NORNE	1.00
2604	SINSKEY Nasal Polyp Electrode—very sharp point.....	FLORE	1.50



Top—No. 2431 Bottom—No. 2085

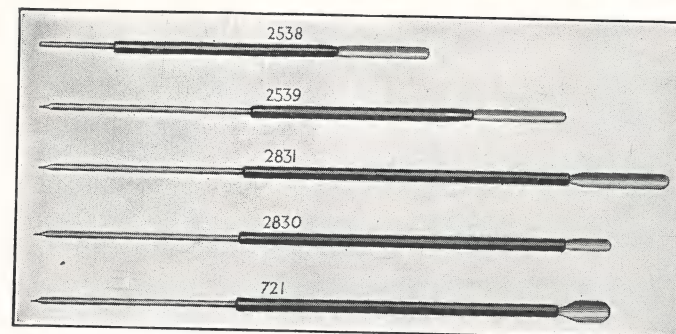
## THOREK Electrodes for Cholecystelectrocoagulation

DESIGNED by Max Thorek, M. D., for his special Cholecystelectrocoagulation operation. For details ask for reprint Form 1429.

No.	::	Code	Price
2085	3/16" Square End. Soft rubber insulation.....	OXOCC	3.00
2086	1/4" Square End. Soft rubber insulation.....	OLIVA	3.00
2087	5/16" Square End. Soft rubber insulation.....	OEDER	3.00
2088	3/8" Square End. Soft rubber insulation.....	OESOP	3.00
2431	Coagulating Ball (3/32" diameter). No insulation.....	ZIANK	.65



## SINSKEY Turbinate Electrodes



**D**ESIGNED for the purpose of applying the Sinskey technic of turbinate shrinkage. Complete reprint giving technic furnished on request. The purpose is to generate heat in the tissues to a point short of tissue-destruction (coagulation). The electrode used is a gutter shaped piece of non-rustable metal, insulated with bakelite.

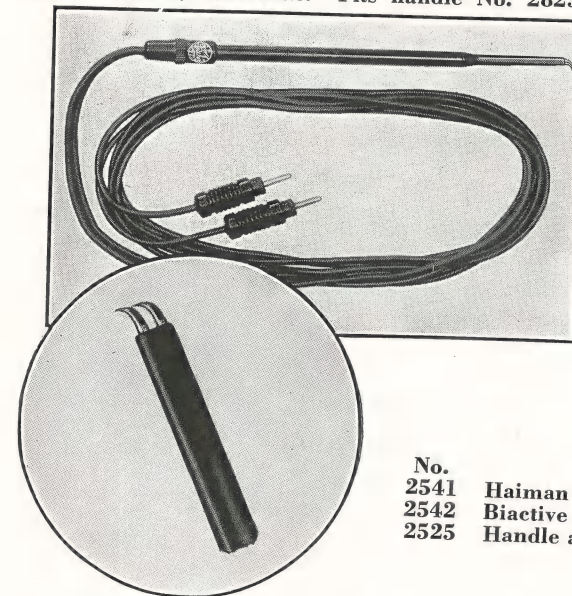
No.		Code	Price
721	Sinskey Electrode (with short, broad surface). Fits handles Nos. 3970, 3971 and 2825.	SIOAD	\$1.75
2539	Sinskey Electrode. Fits handles Nos. 3970, 3971 and 2825.	ZIGAC	1.50
2830	Sinskey Electrode. Fits handles Nos. 3970, 3971 and 2825.	SIORT	1.50
2831	Sinskey Electrode. Fits handles Nos. 3970, 3971 and 2825.	SIONG	1.30
2538	Sinskey Electrode. Fits handle No. 2825.	ZANAZ	1.50

## HAIMAN Biactive Tonsil Coagulating Electrode

**J.** A. HAIMAN, M. D., New York City, employs a method that is based on the use of a Bipolar Tonsil Electrode which is self-contained, being constructed with two active curved needle electrodes which project  $\frac{1}{4}$  inch from the insulated holder.

These electrodes are set 2 mm. apart. Such construction renders both needles active, which permits of coagulation only in the space between them. This method eliminates the necessity of the large block tin indifferent plate electrode as employed in other methods.

The Bipolar Tonsil Electrode can be used to pick up the tonsillar tissue to be coagulated, with the advantage that the double needles make this procedure considerably less difficult.

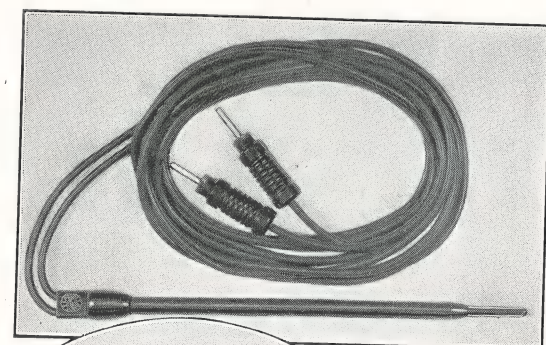


No.		Code	Price
2541	Haiman Biactive Tonsil Coagulating Electrode, complete.	ZEEPH	\$12.50
2542	Biactive Tonsil Tip, only.	ZEERK	7.50
2525	Handle and Cord for Biactive Electrode.	ZEENG	5.00

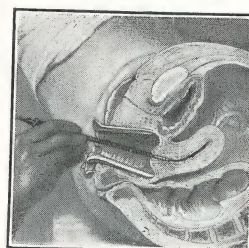
## CHERRY Cervical Coagulating Electrode

**A** BIPOLAR electrode designed for coagulating and destroying glandular tissue in the cervical canal. Made of highly compressed bakelite and monel metal. Active electrode or tip is removable and boilable. Connecting cords are fastened to and form part of electrode proper. Electrode is complete in itself—no indifferent plate required—making the application simple. Positively shock-proof.

The purpose of this electrode is to achieve uniform destruction of glandular tissue throughout the entire length of the cervical canal at one treatment

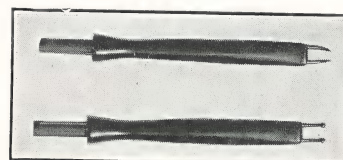


No.		Code	Price
2526A	Cherry Cervical Coagulating Electrode, complete.	ZEMDA	\$12.50
2527	Biactive Tip, only, for Cherry Electrode.	ZEFIX	7.50
2525	Handle and Cord only, for Biactive Electrodes.	ZEENG	5.00



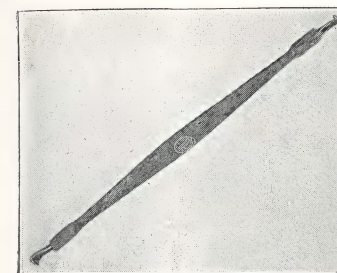
## FISCHER Bipolar Puncture and Coagulation Electrode

**F**OR use in connection with Handle No. 2525. Made of bakelite. Boilable. Tips stainless steel.



No.		Code	Price
2556	Sharp-pointed Bipolar Puncture Electrode.	YAFVA	\$5.00
2558	Ball-pointed Bipolar Coagulator.	BALBI	5.00

## GROSS Pillar Retractor



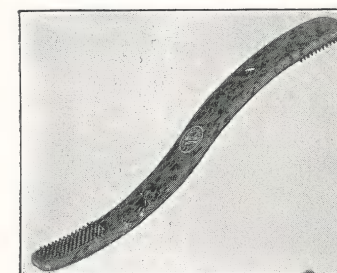
**M**ADE of pure bakelite, practically indestructible. Boilable. The design is very neat and strong, oval and broader in the center for easy grip and so that the operator knows the position of the tips. The metal tips, of two sizes and shapes, are copper, chrome plated. They are properly shaped and will not injure the pillars.

No.		Code	Price
2531		ZIJOJ	\$3.25

## Glass Pillar Retractor, Double End

No.		Code	Price
922	Double End Pillar Retractor (pyrex glass).	ZAVUM	\$1.50

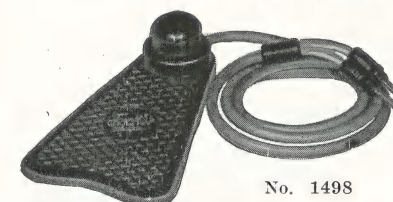
## DILLINGER Tongue Depressor



**M**ADE of pure bakelite. Indestructible. Boilable. One end is somewhat narrower than the other. The shape of this depressor has been carefully designed so that the hand is out of the line of vision of the physician when either end is used. Corrugations are molded into that part of both ends which come into contact with the tongue.

No.		Code	Price
2536	Bakelite Depressor	ZIJYL	\$2.10

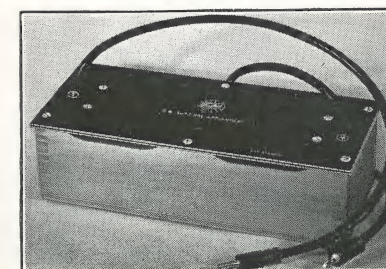
## FISCHER Electrocoagulation Foot Switch



**A**S ILLUSTRATED, this Foot Switch lies close on the floor. A touch of the toe makes and breaks the contact. It is molded of bakelite with sufficient insulation to make it shockproof. It is easily moved about, yet keeps an upright position on the floor. The cable is flexible and covered with pure gum rubber; it may be washed and kept as new always. Cable terminals will be furnished to fit any style apparatus; specify machine used, when ordering.

No.		Code	Price
1498	FISCHER Electrocoagulation Foot Switch with 8-foot cable and tips.	WAVIN	\$7.50
1206	Extra rubber covered cable, per foot.	TIBER	.15
1497	Foot Switch with plug end for latest type FISCHER apparatus.	ZISYV	7.50

## FISCHER Electrosurgical Attachment

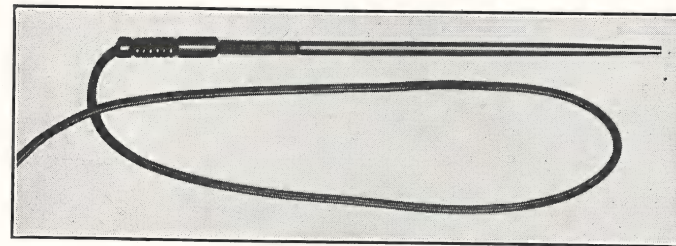


**F**OR USE in connection with FISCHER short wave units, when used for coagulation or tissue-cutting. Plug into patient's outlets. Purpose of this attachment is to stabilize current used when cutting or coagulating. When attached, tissue-cutting or coagulation results are always uniform.

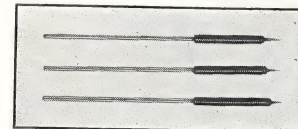
No.		Code	Price
3960	FISCHER Short Wave Electro-surgical Attachment.	YAABA	\$12.00



## HARVEY Galvanic Needle Holder



Holder and Cord



Needles

THE requisites for a practical holder are convenience in handling, small diameter and a chucking device to hold the needle firmly during operation (see illustration). This holder provides for firm clamping of the needle by means of a slight turn of the upper segment. The light flexible connecting cord is fastened securely in the handle. Handle is constructed of hard rubber, and small in diameter. This precludes the possibility of interference with visibility when the Brinkerhoff speculum is used.

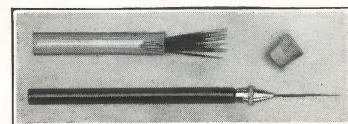
Needles are of one piece ground down from a rigid shank and polished to a hardened smoothness.

The shank is insulated by being cast into bakelite to a thickness of wall of  $\frac{1}{32}$  in. to the needle end, where the insulation first quickly tapers off, forming a surface to block off hydrogen gas; after which the bakelite insulator delicately tapers to a feather edge at the polished needle surface. This latter bakelite surface prevents electrical contact with the hemorrhoid at point of insertion.

Since a needle must under no circumstances pass through the hemorrhoid and pierce the opposite wall, these needles are made in three lengths for large, medium or small blood tumors.

No.		Code	Price
2605	Harvey Galvanic Needle Holder, with cord (less needles) .....	ZIMJA	\$5.50
2606	Harvey Bakelite Insulated Hemorrhoid Needle—1/8" tip .....	ZIMKE	.85
2607	Harvey Bakelite Insulated Hemorrhoid Needle—3/16" tip .....	ZIPYR	.85
2608	Harvey Bakelite Insulated Hemorrhoid Needle—1/4" tip .....	ZIRAN	.85
2610	Harvey Galvanic Holder, Cord and 3 Needles Nos. 2606-2607-2608 .....	ZIFEC	7.50

## Galvanic Needle Holder



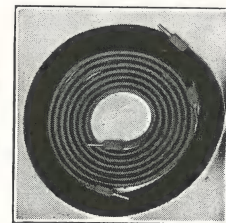
Nos. 1900 and 1901

Made of hard rubber with nickel-plated metal clamp.

No.		Code	Price
1900	Galvanic Needle Holder .....	MYOPE	\$2.50
1901	Galvanic Needles (12 in glass tube) .....	MYRRH	1.25
1902	Hayes Bulbous Pointed Steel Needles (dozen) .....	WEASE	2.25

## Rubber Covered Connecting Cords

No.		Code	Price
1930	Pair (one red and one black) Rubber Covered Connecting Wires with flat terminals, for connecting moist pad electrodes to FISCHER Low Voltage and Contractile Currents Generator .....	WANDE	\$2.00
1931	Pair (one red and one black) Rubber Covered Connecting Wires with tips to fit either FISCHER Low Voltage and Contractile Currents Generator or Small Galvanic Plate .....	WANTO	1.50
1933	Bifurcated Cord with Flat Terminals for connecting moist pad electrodes to FISCHER Low Voltage and Contractile Current Generator and Small Galvanic Plate .....	WARNE	2.75
1904	Rubber Covered Galvanic Cords, 2 colors—red and gray, 3/32" tips .....	MYCOR	1.50



No. 1904

## Wire for Ionization

No.		Code	Price
2613	Zinc Wire for Ionization—6" long, 1/16" diameter .....	ZFAV	\$0.15
2614	Copper Wire for Ionization—6" long, 1/16" diameter .....	ZAZPO	.15

## Spongio Discs and Handles



Universal handle, hard rubber, with felt covered disc.

No.		Code	Price
314	Felt Covered Disc .....	CARSI	\$0.50
315	Hard Rubber Handle .....	CARHA	.85
316	Felt Pad Disc and Handle .....	CARMI	1.30

## Leather Headband

ADJUSTABLE. Furnished with block tin (plain metal) and spongio pad (felt) electrodes (interchangeable), it is equally useful for both diathermy and galvanic treatments about the head.

No.		Code	Price
1356	Leather Headband .....	LETHR	\$4.50



## Headband and Zinc Electrode for Nasal Ionization

CONSISTS of adjustable leather headband with binding post on front to hold special zinc-tipped electrode. Binding post on end of electrode to engage connecting cord from galvanic generator. Indifferent electrode placed on arm as shown in the illustration.

No.		Code	Price
1358	Zinc Electrode and Headband for Nasal Ionization .....	DADBO	\$4.75
1357	Zinc Electrode only for Nasal Ionization .....	JAMOO	1.50
1356A	Headband only for Nasal Ionization .....	JEDOT	3.25

## Self-Retaining Ear Speculum

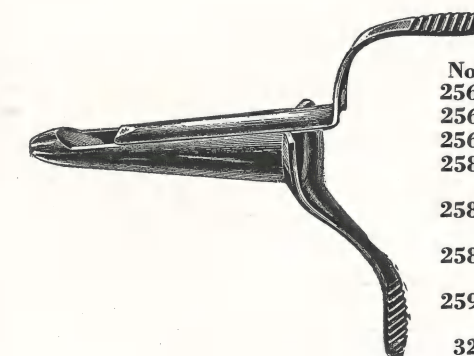


FOR use in metallic ionization of chronic otorrheas. The leather band is easily placed around the head with the speculum directed into the ear canal to be treated. A free rotary motion of the speculum holder facilitates the direction of the glass speculum so that no difficulty is encountered in setting it in proper position.

No.		Code	Price
1355	Self-retaining Ear Speculum .....	WASSA	\$12.50

## Brinkerhoff Rectal Speculums

USED in connection with the HARVEY technic in the treatment of hemorrhoids by negative galvanism.



No.		Code	Price
2560	Brinkerhoff Rectal Speculum, chrome plated, small .....	YAMFE	\$ 7.50
2562	Brinkerhoff Rectal Speculum, chrome plated, medium .....	YANYL	7.50
2564	Brinkerhoff Rectal Speculum, chrome plated, large .....	YAFWE	7.50
2585	Brinkerhoff Illuminated Rectal Speculum, chrome plated small .....	ZAMOC	14.40
2587	Brinkerhoff Illuminated Rectal Speculum, chrome plated medium .....	ZECTE	14.40
2589	Brinkerhoff Illuminated Rectal Speculum, chrome plated large .....	ZEMKY	14.40
2592	Connecting Cords for Brinkerhoff Illuminated Rectal Speculum (E.S.I. type) .....	ZELKA	2.50
328	Bulb for Brinkerhoff Illuminated Rectal Speculum .....	ZAKWE	1.00



IMPORTANT: All x-ray and electro-surgical-medical apparatus designed and produced by H. G. FISCHER & CO. bears the identifying trade mark — the name "H. G. FISCHER & CO., CHICAGO, ILL.," in the black-white electric disc. H. G. FISCHER & CO. manufacture no equipment outside of Chicago. This company is the ORIGINAL HOUSE OF FISCHER, incorporated in 1910. It has no connection with any other companies of similar name.

H. G. FISCHER & CO. apparatus, including accessories and supplies, is quality-built and satisfactory performance is guaranteed. Look for the H. G. FISCHER & CO. trade mark. It is your protection.



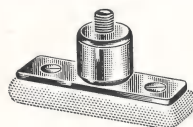


## Urethral Electrodes

**M**ADE in six sizes, four being all copper and two of medium size with hard rubber tips.

No.		Code	Price
1834	Copper Electrode, 3 tapered to 9 Fr. diameter, 2" long, with rubber holder No. 1864.....	NENTU	\$3.50
1835	Copper Electrode, 7 tapered to 12 Fr. diameter, 2" long, has hard rubber tip. Mounted on holder No. 1864.....	NONTE	3.50
1836	Copper Electrode, 8 tapered to 13 Fr. diameter, 2" long, has hard rubber tip. Mounted on holder No. 1864.....	NEURA	3.50
1860	Copper Electrode, 6 tapered to 13 Fr. diameter, 2 1/4" long, with rubber holder No. 1864.....	NIGRI	3.00
1861	Copper Electrode, 10 tapered to 15 Fr. diameter, 2 1/4" long, with rubber holder No. 1864.....	VARIK	3.00
1862	Copper Electrode, 14 tapered to 19 Fr. diameter, 2" long, with rubber holder No. 1864.....	NIOBE	3.00
1864	Hard Rubber Holder with split contact in end for cord tip, 8 1/2" long, for above electrodes.....	NISAN	2.25
1827	Curved Copper Electrode End, only, 3 Fr. diameter, 2" long, (same as No. 1834 but without holder).....	KABUR	1.50
1828	Curved Copper Electrode End with hard rubber tip, only, 7 Fr. diameter, 2" long, (same as No. 1835 but without holder).....	KACYN	2.00
1829	Curved Copper Electrode End with hard rubber tip, only, 8 Fr. diameter, 2" long (same as No. 1836 but without holder).....	KAINI	2.00
1865	Curved Copper End, only, 6 Fr. diameter, 2 1/4" long, (same as No. 1860 but without holder).....	NODDL	1.00
1866	Curved Copper End, only, 10 Fr. diameter, 2 1/4" long, (same as No. 1861 but without holder).....	NOETI	1.00
1867	Curved Copper End, only, 14 Fr. diameter, 2" long, (same as No. 1862 but without holder).....	NODOS	1.00

No.		Code	Price
1870	Hard Rubber Holder with Copper Olive Tip, 17 Fr. dia....	NISSU	\$2.00
1871	Hard Rubber Holder with Copper Olive Tip, 20 Fr. dia....	NITRA	2.00
1872	Hard Rubber Holder with Copper Olive Tip, 23 Fr. diameter.....	NITRO	2.00
1873	Hard Rubber Holder with Copper Olive Tip, 25 Fr. diameter.....	NIVOS	2.00
1874	Hard Rubber Holder with set of 4 Olives, as above.....	NOBOD	4.00
1875	Hard Rubber Holder, only.....	NOCEN	1.50
1876	Copper Olive only, 17 Fr. diameter.....	NOGIN	.65
1877	Copper Olive only, 20 Fr. diameter.....	NONAC	.65
1878	Copper Olive only, 23 Fr. diameter.....	NONCO	.65
1879	Copper Olive only, 25 Fr. diameter.....	NONEG	.65
1880	Perforated Hard Rubber Olive, for Cataphoresis, with Holder, 19 Fr. dia....	NOODO	2.25
1881	Perforated Hard Rubber Olive only, 19 Fr. diameter.....	NORMA	.75



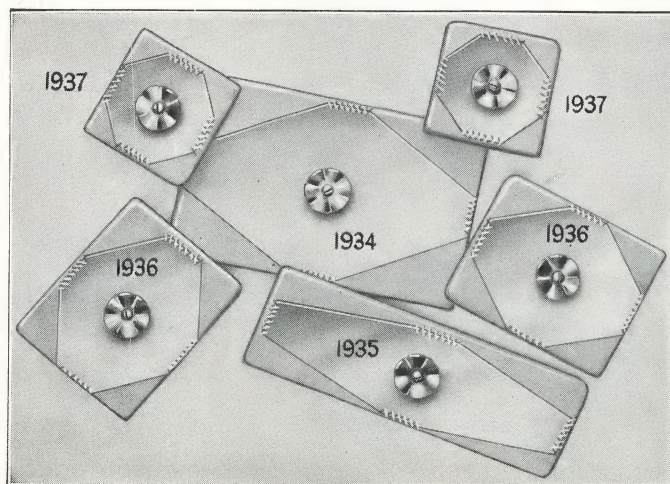
No. 1846

## Small Muscle Testing Pads

**P**ADS Nos. 1846, 1847 and 1848 are made with metal backing with asbestos as the absorbent material, and covered with linen. Nos. 1895, 1896 and 1897 are made of metal with a chamois covering over the ball end.

No.		Code	Price
1846	With pad 5/16"x1 3/4".....	NICTA	\$1.25
1847	With pad 3/8"x1 3/4".....	NIELL	1.25
1848	With pad 1/2"x1 3/4".....	NIEVE	1.25
1850	Set of 3 Pads as above.....	NIGGL	3.50
1895	Localizing Electrode (Small).....	VALET	.55
1896	Localizing Electrode (Medium).....	VALID	.65
1897	Localizing Electrode (Large).....	VALOR	.75
1898	Set of 3 Localizing Electrodes as above.....	VARIE	1.75

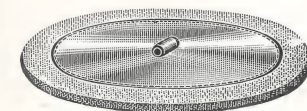
(See handle No. 315 on page 32)



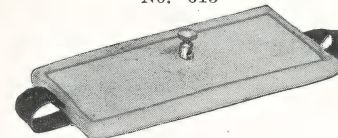
## FISCHER Moist Pad Electrodes

**F**ORMED of an asbestos compound which is thoroughly water soaked before applying. Covered with heavy white linen fabric. The metal electrode plate is sewed snugly to the pad, and contact with the connecting cord is made with the FISCHER Flat Spring Connection.

No.		Code	Price
1934	Flat Pad Electrode—5x8".....	WAPIT	\$2.00
1935	Flat Pad Electrode—3x9".....	WARBL	1.70
1936	Flat Pad Electrode—4x5".....	WARDE	1.70
1937	Flat Pad Electrode—3x3".....	WARIL	1.60



No. 613



No. 690

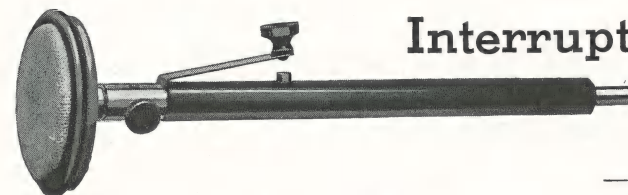
## Flexible Pad Electrodes

**A** FLEXIBLE felt pad, backed with pure block tin. Can be adapted to almost any shape. Has connection on back for fastening wire from machine.

No.		Code	Price
613	Felt Pad Electrode—8"—Round.....	GIDDY	\$2.35
690	Felt Pad Electrode—3"x6".....	LASHE	1.25

Pad electrodes of odd sizes and shapes made to order.

Write us your requirements.



## Interrupter Handle with Moist Pad

No.		Code	Price
1831	Interrupter Handle with Moist Pad...	MASHE	\$5.50



No.		Code	Price
1821	Carbon Ball Electrode.....	MARCU	\$2.00

## Oblong Copper Ball Electrode

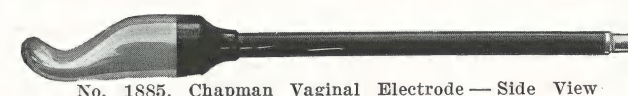


No.		Code	Price
1822	Oblong Copper Ball Electrode.....	MARGA	\$2.50

## Vaginal Electrode



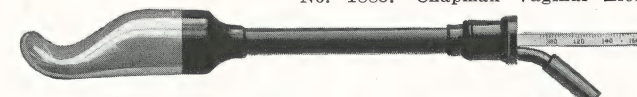
No.		Code	Price
1825	Vaginal Electrode—aluminum tip.....	MARLI	\$3.75



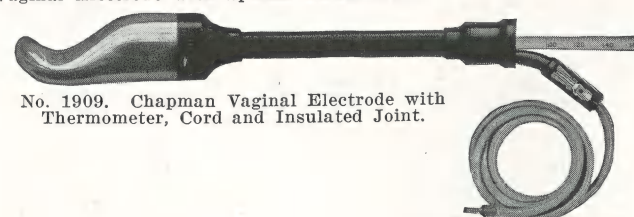
No. 1885. Chapman Vaginal Electrode—Side View



No. 1885. Chapman Vaginal Electrode—Top View



No. 1886. Chapman Vaginal Electrode with Special Thermometer



No. 1909. Chapman Vaginal Electrode with Thermometer, Cord and Insulated Joint.

## Chapman Vaginal Electrodes

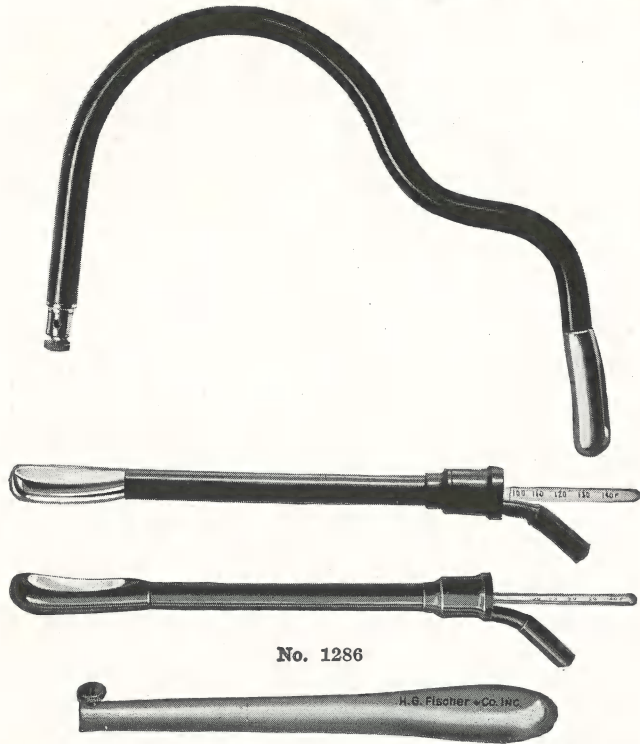
**D**ESIGNED along scientific lines, with size and shape of polished metal end to properly engage the lips of the cervix. The shank, or handle, is made of hard rubber. These electrodes are to be used with diathermy current. Supplied both with and without the special thermometer which permits the accurate maintenance of an exact temperature within the vagina. This instrument is of extreme value in the treatment by diathermy of painful or inflammatory conditions of the female pelvis.

No.		Code	Price
1886	Regulation size with thermometer. Shank 1 3/16" diameter, cervical bowl 1 3/4" wide and 3/8" thick. Handle of hard rubber.....	CHAVA	\$13.00
1885	Regulation size, without thermometer arrangement.....	CHAPE	6.75
1884	Small size, with thermometer. Shank 15/16" diameter, cervical bowl 1 7/16" wide, 5/16" thick. Hard rubber handle.....	CHASM	13.00
1883	Small size, without thermometer arrangement.....	CHALI	6.75
1909	Regulation size, as No. 1886, with thermometer and with cord and insulated joint.....	VERMI	16.00
1907	Small size, as No. 1884, with thermometer and with cord and insulated joint.....	VERIT	16.00

Technic for the Chapman Vaginal Electrode is fully described in our pamphlet, "Diathermy in Gynecology." Ask for Form 648B



FISCHER Prostatic Electrodes



SO CURVED that when inserted into the rectum it holds firmly in place.

No.	::	Code	Price
2644	Mills type.....	MILLS	\$5.00

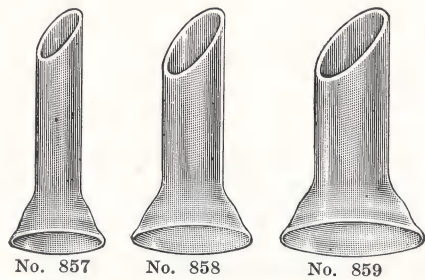
Electrode No. 1278 is constructed with hard rubber shank, the metal end being highly polished and nickel plated, correctly curved. Has insulated attachment to accommodate cable from diathermy machine. Accurate thermometer is provided.

No.	::	Code	Price
1278	Prostatic Electrode, with thermometer (FISCHER).....	PRELT	\$10.00

Electrode No. 1286 is also made with hard rubber shank, and on this device the insulation is carried almost entirely around the polished metal end. There is but one small curved face of polished nickel plated metal exposed. Has insulated attachment to accommodate cable from diathermy machine. Accurate thermometer is provided.

No.	::	Code	Price
1286	Prostatic Electrode, with thermometer (FISCHER).....	PREIN	\$10.00
1285	Prostatic Electrode, plain (like No. 1286 but without thermometer arrangement) .....	MARIN	6.50
1287	Oval-shaped, all metal, Mansur type.....	WHERR	\$3.50

Glass Rectal and Vaginal Speculums



FOR use in connection with electrical applications (Diathermy, High Frequency, Galvanism, etc.) in the rectum and vagina. These speculums are made in three standard sizes:

No.	::	Code	Price
857	22 mm. diameter.....	SABOT	\$1.05
858	30 mm. diameter.....	SABER	1.05
859	40 mm. diameter.....	SACRE	1.05

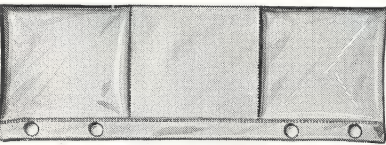
Diathermy Thermometers



SPECIAL long thermometers for use in orificial electrodes. Thermometers are of such length, with graduations at the extreme end that temperature may be read without withdrawal.

No.	::	Code	Price
1279	Thermometer (Fahrenheit scale).....	THERM	\$3.00
1288	Thermometer (Centigrade scale).....	VERTE	3.00

Sandbags

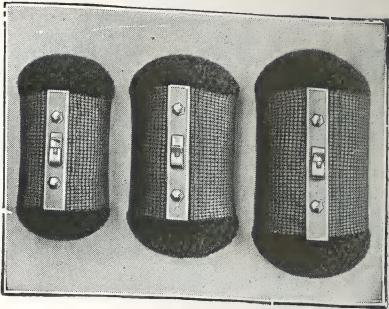


MADE of tough linen fabric. The end, or sand pockets are of the same size and capacity regardless of the length of the whole, and are about half filled with sand. This leaves the assembly very flexible and adaptable. When the bag is placed over the patient the flat band only bears on the electrode—the weights hang down at the sides. The longer pads are made to hang over the side of the treatment table or cot.

No.	::	Code	Price
880	5" wide by 15" long.....	NESTO	\$1.10
881	5" wide by 25" long.....	SANBA	1.20
882	5" wide by 36" long.....	NETIN	1.30
883	5" wide by 45" long.....	SANNE	1.50
884	5" wide by 60" long.....	NEUBA	1.75

Mesh Electrodes With Sponge Rubber Pads

THE sponge rubber padding may be washed and always kept clean. It is very soft, and conforms well to any uneven surface. Stocked in two sizes.



No.	::	Code	Price
891	Sponge Mesh Electrode—3"x5".....	NEMEA	\$3.00
893	Sponge Mesh Electrode—3 1/2"x6".....	NEOGA	4.25
896	Sponge pad, only, 3 1/4"x4 1/2".....	WEANE	.30
897	Sponge pad, only, 3 1/2"x5 1/2".....	WEAPO	.65

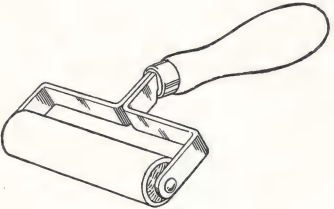
Sheet Block Tin

SHEET block tin, made specially flexible for use as diathermy electrodes, 12 inches wide. This is something entirely distinctive in sheet electrode material, composed of a center of very flexible alloy with a sheet of pure tin on each side. Physicians will appreciate the fact that pure tin is placed in contact with the skin in preference to the lead ordinarily supplied. It is easily cut with scissors.



No.	::	Approx. Sq. In. Per Pound	Approx. Length Per Pound	Code	Price
840	.010 thick—30 B. & S. Gauge.....	250	21 1/2"	NESSU	\$0.65
841	.018 thick—25 B. & S. Gauge.....	144	12"	NESTL	.65
839	.031 thick—20 B. & S. Gauge.....	75	6 1/4"	NESSP	.65
842	.062 thick—14 B. & S. Gauge.....	48	4"	NESTH	.65

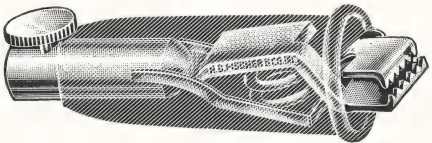
Composition Block Tin Roller



A SEMI-HARD roller of composition material, as illustrated. 4-inch roller is mounted in metal frame. Handle is of hardwood. To keep diathermy electrodes smooth and flat.

No.	::	Code	Price
888	Composition Block Tin Roller.....	TINRO	\$0.50

Electrode Clamp



HEAVILY constructed, with pliable rubber covering. Holds electrodes in bull-dog grip.

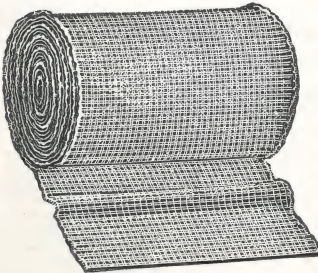
No.	::	Code	Price
874	Electrode Clamp.....	ZOARS	\$0.60

Electrode Clips

No.	::	Code	Price
868	Block Tin or Mesh Electrode Clamp.....	NETTL	\$0.30
852	The "Fahnstock" Clip.....	FACON	.10



Crepe Bandage (Non Rubber)



EMPLOYING crepe bandage is the only known method of binding diathermy electrodes to the limbs, which will permit the patient to move if necessary for the sake of comfort without the electrode shifting.

No.	::	Code	Price Yd.
2595	3" width.....	ZAWIL	\$0.30
2596	2" width.....	ZAWKE	.20

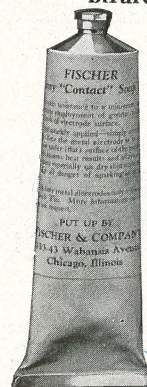
No. 2595



## FISCHER Diathermy Cords

**I**MPROVED diathermy cords, covered only with pure gum rubber. They are very flexible, easily kept as clean as when new, and constructed to give long service.

No.		Code	Price
2650	6-Foot Diathermy Cord with heavy (5/16") black rubber insulation, each.....	ANDRO	\$1.40
2652	6-Foot Diathermy Cord with light (5/32") black rubber insulation, each.....	AMIGO	1.25
2653	6-Foot Diathermy Cord with light (5/32") red rubber insulation, each.....	AMFIL	1.25
2654	6-Foot Diathermy Cord with light (5/32") yellow rubber insulation, each.....	AMBUN	1.25
2655	One each No. 2652 Black and No. 2653 Red Rubber Insulated Cords, pair.....	APPIN	2.45
2656	Set of three—No. 2652 Black, No. 2653 Red and No. 2654 Yellow Rubber Insulated Cords.....	ANEAR	3.60
2658	Bifurcated Diathermy Cord (5/32") black rubber insulation, made up with 6-ft. single end, 2-ft. bifurcation .....	APORT	2.00



No. 876



No. 906



No. 907

## FISCHER Improved Diathermy Paste

Convenient, always ready.

No.		Code	Price
876	In handy collapsible 10 oz. tube .....	DIASO	\$0.70
906	16 oz. opalite jar.....	VOTIV	1.10
907	16 oz. refill for jar, in wax paper carton .....	VOWEL	.80

## Insulating Oil for Transformers

**W**HEN, for any reason, the insulating oil in which a transformer is immersed needs replenishing, *never use ordinary lubricating material.* The proper oil must be mineral in substance, and capable of withstanding a very high flash test. The safest procedure is to order the desired quantity from us, with the assurance that only that oil which is exactly correct will be sent you.

No.		Code	Price
725	Tested Transformer Oil, in 1 qt. can.....	TRAFI	\$0.60
726	Tested Transformer Oil, in 1 gal. can.....	TANOI	2.00

## Pilot Lamps

An indicating lamp bulb used on most of our portable and cabinet apparatus.

No.		Code	Price
325	Plain Bulb .....	LARRU	\$0.20
326	Ruby Bulb .....	LODGE	.20
3448	12 Volt Bulb, for Short Wave Outfits.....	HAMAM	.15

## FISCHER Cautery and Diagnostic Transformer

**T**HIS FISCHER Cautery and Diagnostic Light Transformer is a compact, neat generator of the closed-core type. Has a diagnostic lamp circuit with a range of from 1/2 to 12 volts. Can be used with perfect safety for lighting your smallest Cystoscope bulbs, or for illuminating a 12-volt lamp if necessary. Both circuits are perfectly regulated, and durably wound. Case is covered with black leatherette. Contact buttons, regulating levers, and binding posts are of brass, heavily nickel-plated, and mounted on black bakelite.

No.		Code	Price
470	Transformer only, in carrying case, with connecting cord and attachment plug, for 110 volt, 60 cycle, alternating current .....	ABABB	\$27.50
471	Outfit with pair No. 306 Heavy Cautery Cords, 1 No. 305A Cautery Knife, 1 No. 305C Cautery Knife, 1 No. 301 Cautery Handle, 1 No. 321 Diagnostic Illuminator, complete .....	ABACA	34.50



No. 471

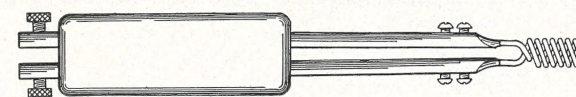
## Cautery Knives

**T**HE carefully shaped knives are securely mounted into the copper bars. These knives are shaped to conform with almost any requirements for all purposes. The copper bars are bound together by a special twisting process, and enameled to withstand heating and handling indefinitely. Knives are made of a special alloy, of high electrical resistance.

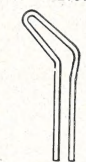
No.		Price
305A to 305J .....	Each,	\$0.60
305K to 305N Heavy .....	"	.80

Codes Acmea, Acmeb, Acmeb, etc.

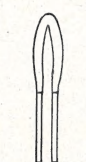
## Heavy Cautery Knives and Handle



No. 295



No. 297



No. 298

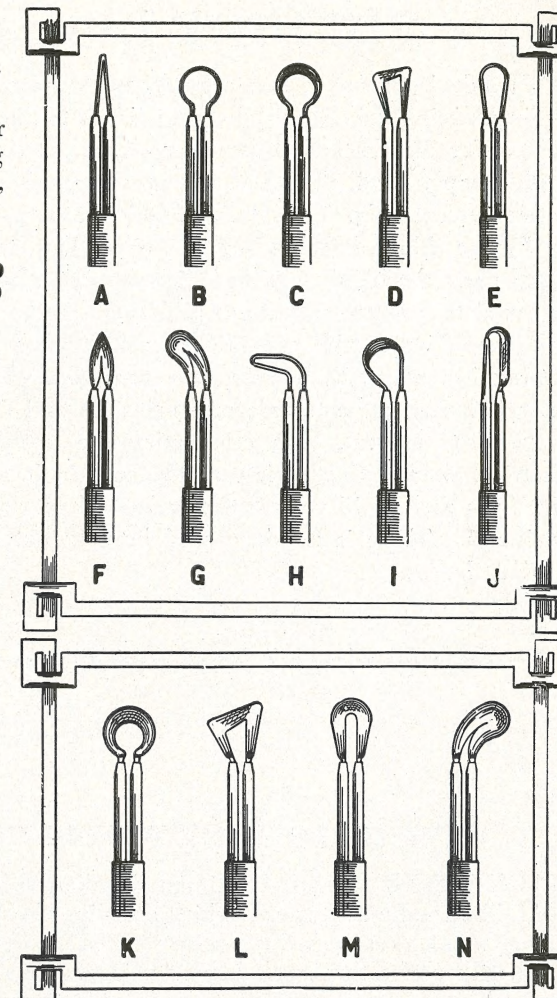


No. 299



No. 300

No.		Code	Price
295	Heavy Cautery Handle .....	PACER	\$12.25
296	Heavy Spiral Cautery Knife .....	PACHA	1.60
297	Heavy Angular Cautery Knife .....	PACIF	2.05
298	Heavy Pointed Cautery Knife .....	PACKO	1.30
299	Heavy Plain Loop Cautery Knife .....	PACTO	1.40
300	Heavy Flat Loop Cautery Knife .....	PADDL	1.75



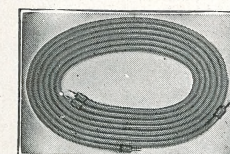
## Cautery Handle



No.		Code	Price
301	Cautery Handle (for holding knives Nos. 305A to 305N).....	ACETY	\$2.75

**M**ADE of a practically indestructible material. Arranged to hold the knives in any one of five positions. Has contact switch for convenience in operating.

## FISCHER Cautery Cords



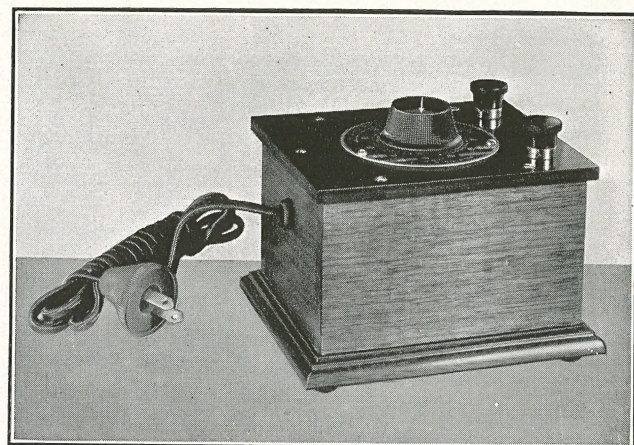
**F**LEXIBLE copper stranded wire, covered with pure gum rubber, replacing the former cords which were covered with mercerized webbing. May be washed and always kept clean as when new.

No.		Code	Price
1330	Cautery Cords, 6 ft., pair.....	NEGRO	\$2.75
Note: When ordering these cords for the FISCHER Senior "FO" or "LO" Diathermy Outfits, specify No. 2655, which are supplied with special tips.			
No.		Code	Price
306	Mercerized Covered Cautery Cords, 6 ft. pair .....	ACHOR	\$1.00
307	Mercerized Covered Cautery Cords, 6 ft. pair to fit "CSWT" unit.....	DAFPZ	1.00



## FISCHER Diagnostic Lamp Transformer

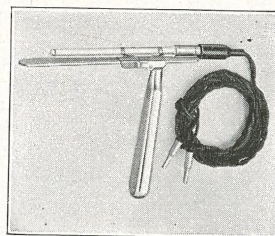
THIS device is small, compact, very necessary and useful in reducing the ordinary lighting circuit to the required voltage for diagnostic instruments, such as the cystoscope, urethroscope, headlights, and so on. Operates on alternating current only. The box is of solid walnut, 4" x 5" x 3½" with black bakelite top. Weighs but 3 pounds. Metal parts are highly polished nickel plate. Rubber feet are used to prevent scratching tables or stands. A long silk-covered cord with suitable plug is attached for connecting instrument to lighting current outlet. This regulator is built on the transformer principle and delivers a ground-free current, thus eliminating the possibility of electrical shock. Control is very fine. An increase in current from zero to 15 volts is available, without any breaks or jumps. There is no danger of burning out even the smallest lamps.



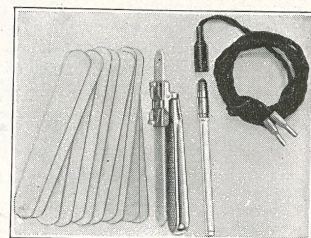
No.	Code	Price
2600 FISCHER Diagnostic Lamp Transformer.....	ZANUF	\$15.00

## Tongue Depressor and Diagnostic Illuminator

CONSISTING of an aluminum handle with folding end-piece through which are slipped ordinary wooden tongue strips, twelve wooden blades, green silk connecting cord, lamp socket and opal lamp. The special opal lamp is supported in spring clips above the wooden tongue blades, and is easily removed. This lamp throws an intense white light, properly focused.

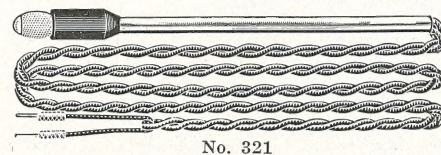


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340

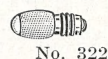


No.	Code	Price
335 Diagnostic Illuminator, with Cords and Socket, and Opal Lamp .....	USURP	\$4.75
336 Special Diagnostic Lamp Bulb, only .....	UTHER	2.00
337 Tongue Depressor, only, with twelve blades .....	UVULA	2.50
338 Extra Wooden Tongue Blades, box of 12 .....	VACAT	.15
340 Complete Lamp and Tongue Depressor arrangement, including Illuminator with Cords, Holder, and Opal Lamp, Tongue Depressor and 12 Wooden Tongue Blades .....	VAGUE	7.25

## Diagnostic Illuminator and Shield



No. 321



No. 322



No. 324

CONSISTING of a long metal holder, with a green silk covered connecting cord, and bulb.

No.	Code	Price
321 Illuminator, complete with Tungsten lamp .....	ANALO	\$2.50
322 Bulb only, 3.8 Volt, lens in end .....	ACIDD	1.30
329 Bulb only, 3.8 Volt .....	HETOL	.35
324 Polished Nickel-plated Shield for No. 321 .....	AGILE	.55

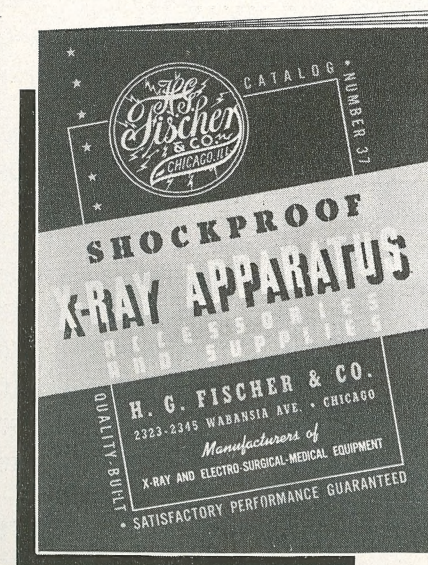
## Price List of Therapeutic Carbons

Type of	Code	Lots of 10	Lots of 50	Lots of 100
No. Carbon				
2177 ("A") 8mm. x 6" .....	YUCAR	\$1.25	\$6.25	\$12.50
2178 ("C") 8mm. x 6" .....	ACREN	1.60	8.00	16.00
2180 ("E") 8mm. x 6" .....	ADAGG	1.45	7.25	14.50
2183 ("B") 8mm. x 6" .....	ALLYL	1.55	7.75	15.50
2185 ("K") 8mm. x 6" .....	ALTOO	2.75	13.75	27.50
2188 ("A") 8mm. x 12" .....	ALARY	2.00	10.00	20.00
2189 ("C") 8mm. x 12" .....	ANILL	2.60	13.00	26.00
2191 ("E") 8mm. x 12" .....	APEXX	2.20	11.00	22.00
2194 ("B") 8mm. x 12" .....	AMIRI	2.55	12.75	25.50
2196 ("K") 8mm. x 12" .....	ANARX	5.05	25.25	50.50

## Ultra-Violet Goggles

No.	Code	Price
2254 Infant's Goggles .....	CHIGO	\$0.50
2255 Adult's Goggles .....	GLAGO	.50
2256 Adult's Goggles .....	PHYGO	1.00

## FISCHER Catalog . . . X-Ray Apparatus Accessories and Supplies



THIS is Catalog No. 37. Measures 8½"x11" — 52 pages. Gives a complete listing of all FISCHER X-Ray Apparatus, also such accessories and supplies as are vital in high quality radiographic and fluoroscopic work. In this catalog, effort was made—

- . . . To include all items needed by the x-ray specialist, medical or dental.
- . . . Many competing items are shown, such as screens and films, permitting selection to be made.
- . . . Prices are inserted for convenience of customers.
- . . . A handy reference index is placed at the back.

Catalogs of this type are naturally expensive and not for indiscriminate distribution. This catalog is intended primarily as a service to FISCHER customers. It will, however, be sent, without charge to any interested physician or dentist.



BOOKS

No.		Code	Price
2300	"Actinotherapy for General Practitioners" by H. G. Falkner, L.R.C.S.I. 152 pages. Illust.....	VAGGE	\$3.00
2301	"Actinotherapy with Special Reference to Ultra-violet Radiation" by D. D. Rosewarne, M.R.C.S. 237 pages. Illust.....	VAHXE	4.00
2302	"A Hand-Book of Physio-Therapy" by Alvah M. Stafford, M.D., 279 pages. Illust.....	VAXEH	6.00
2303	"An X-ray Atlas of the Normal and Abnormal Structures of the Body" by Archibald M'Kendrick, F.R.C.S. and Charles R. Whittaker, F.R.C.S. 2nd edition. 256 pages .....	VAXIX	10.00
2305	"Artificial Sunlight and Its Therapeutic Uses" by Francis Howard Humphris, M.D. 5th edition. 340 pages. Illust. ....	VEHEB	3.25
2696	"Artificial Fever" by Neymann (1938 edition).....	TIAUV	6.00
2306	"A Treatise on Light" by R. A. Houstoun, M.A. 5th edition. 489 pages. Illust.....	VEYER	4.20
1757	"Clinical Application of Sunlight and Artificial Radiation" by Edgar Mayer, M.D.....	WAGON	10.00
2347	"Diathermy Medical and Surgical in Oto-Laryngology" by Dan McKenzie, M.D. 184 pages. Illust. ....	ZANDO	4.00
2307	"Diathermy with Special Reference to Pneumonia" by Harry Eaton Stewart, M. D. 2nd edition. 228 pages. Illust.....	VEXAB	3.00
2344	"Electrotherapy and Light Therapy" by Richard Kovacs, M.D.....	ZIURS	7.50
2299	"Elements of Physical Therapy" by William W. Worster, A.B., A.M., M.D., 2nd edition. 232 pages. Illust.....	VIVVO	5.00
1976	"Electrothermic Methods in the Treatment of Neoplastic Diseases" by J. Douglas Morgan, M.D...	WASHE	2.50
2309	"Facts About Artificial Sunlight" by E. L. Ash, M.D., 62 pages.....	VIXAX	1.00
2697	"Foundations of Short Wave Therapy" by Holzer and Weissenberg (1935 edition).....	TIAWX	5.00
2345	"Fundamental Principles of Ray Therapy" by William Beaumont. 124 pages. Illust.....	ZIUST	2.40
2335	"Galvanism and Sine Current Technique" by Frederick H. Morse, M.D.....	ZELJY	6.00
2310	"Handbook of Medical Electricity and Radiology" by James R. Riddell, F.R.F.P.S. 239 pages. Illustrated. ....	VIBIX	2.75
3889	"Introduction to Short Wave Therapy" by H. G. Fischer & Co.....	IAKIH	1.00
2313	"Medical Electricity" (for students) by A. R. I. Browne. 3rd edition. 245 pages. Illust.....	VOYOB	4.00
2298	"Modern Physical Therapy Technic" by Chas. L. Ireland, M.D.....	HAPAL	7.00
3886	"Physical Therapeutic Methods in Otolaryngology" by Abraham R. Hollender, M. D.....	SADXX	5.00
2315	"Physical Therapeutic Technic" by Frank Butler Granger, M.D. 417 pages. Illust.....	VUXUX	6.50
2775	"History of Physical Therapy" by Coulter. 1932 edition .....	DAFLL	1.50
1975	"Physical Therapy in Diseases of the Eye, Ear, Nose and Throat" by A. R. Hollender, M.D., and M. H. Cottle, M.D.....	WARTE	3.00
2333	"Practical Ultra-violet Light Therapy" by T. Clyde McKenzie and A. A. King. 108 pages. Illust..	VOXYD	2.50
2772	"Principles and Practice of Physical Therapy." Edited by Mock, Pemberton & Coulter (3 volumes) .....	DAFGE	35.00
2698	"Radiation Therapy" by Kaplan (1937 edition) .....	TIAXY	10.00
2771	"Short Wave Therapy" by Dr. Erwin Schleiphake .....	DAFFO	7.00
1971	"Surgery of Neoplastic Diseases by Electrothermic Methods" by George A. Wyeth, M.D.....	AHOYY	7.50
2349	"Text Book of Physical Therapy" by Heinrich Wolf, M.D.....	WOLPH	5.50
1977	"The Basis of Light in Therapy" by Herman Goodman, M.D. 2nd edition. 212 pages. Illust...	WASTE	5.00
2774	"The Curative Value of Light" by Edgar Mayer, M.D.....	DAFIR	1.50
2322	"The Principles of Electrotherapy and Their Practical Application" by W. J. Turrell, M.A. 2nd edition. 413 pages. Illust.....	JAXEN	4.75
2327	"Ultra-Violet Radiation in Dental Pathology" by Frederick W. Lake, D.M.D. 112 pages. Illust...	JIBXY	3.75

WHEN ORDERING REMEMBER...

It is better to use a separate sheet on which to write your order and write on *one* side only. This hastens the correct filling of your order. Always give catalog numbers and write plainly, or when ordering by telegraph use *Code* words as they designate to us exactly what is desired, and save you expense in sending the message.

When shipping instructions do not accompany an order for accessories, we reserve the right to ship as we deem advisable—either parcel post or express.

**Damage to Goods in Transit** Our responsibility ceases when goods are receipted for by the express or freight agent, and we cannot be held responsible for breakage during transit. If claim is to be filed for damaged goods, notify us immediately that proper claim may be entered.

Further, your local carrier's agent should at once be notified and have the damaged goods inspected. Neglect in complying with this rule places the responsibility entirely with the consignee in case claim is refused.

Return of goods by parcel post should always be insured so the shipper is protected in case parcels are lost.

**Guarantee** Any defects in our apparatus that may develop within six (6) months from date of shipment under normal and proper use, due to faulty material, imperfect insulation, or ineffective workmanship, will be repaired or replaced at our expense, provided such apparatus is delivered *pre-paid* to our factory.

For repairs or replacements during the next twelve (12) months, we will charge only actual cost to cover, and after this period our service and our attention are to be called on when required, with the understanding that charges for overhauling FISCHER apparatus will always remain as near actual cost as possible.

We will not assume any liability for work done by others, without our consent in writing, nor for defects from improper storage.

We will not assume any liability for breakage of glassware, nor for deterioration of rubber goods,

x-ray films or any perishable goods. We can but use the best materials obtainable.

**Return of Merchandise** Credit for return of goods ordered in error or on account of dissatisfaction on receipt has become a serious factor of expense, and is a problem difficult of solution. In justice to our customers, and to ourselves, we have adopted the following rules, governing such returns:

No merchandise will be returnable for credit after having been in customer's possession fifteen (15) days or more.

No merchandise will be returnable for credit except upon written request of purchaser, and then only with our consent.

All merchandise must be returned *prepaid*.

No merchandise will be accepted unless returned in saleable condition.

All merchandise returned, whether for repairs or for credit, must be carefully packed, and all goods over a \$2.00 valuation should be insured.

And last, but very important, *never* fail to place *your name and address in and on* the box or parcel when shipping to us.

**Prices** All prices are figured F. O. B. Chicago. The prices quoted in this catalog on all our goods are as low as it is possible to make them and still be consistent with the quality of the materials and high grade of workmanship used in their construction.

*All orders for \$1.00 or under should be accompanied with stamps, money order or check.*

*Our prices are subject to change without notice.*

**New Accounts** We earnestly solicit new customers, but purchasers will appreciate the necessity of supplying satisfactory references. The name of the bank carrying your account, or some Chicago firm with which you have transacted recent business, is usually sufficient.



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